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Current Economic Analysis F-**33**

Food Fish Market Review

Washington, D.C.
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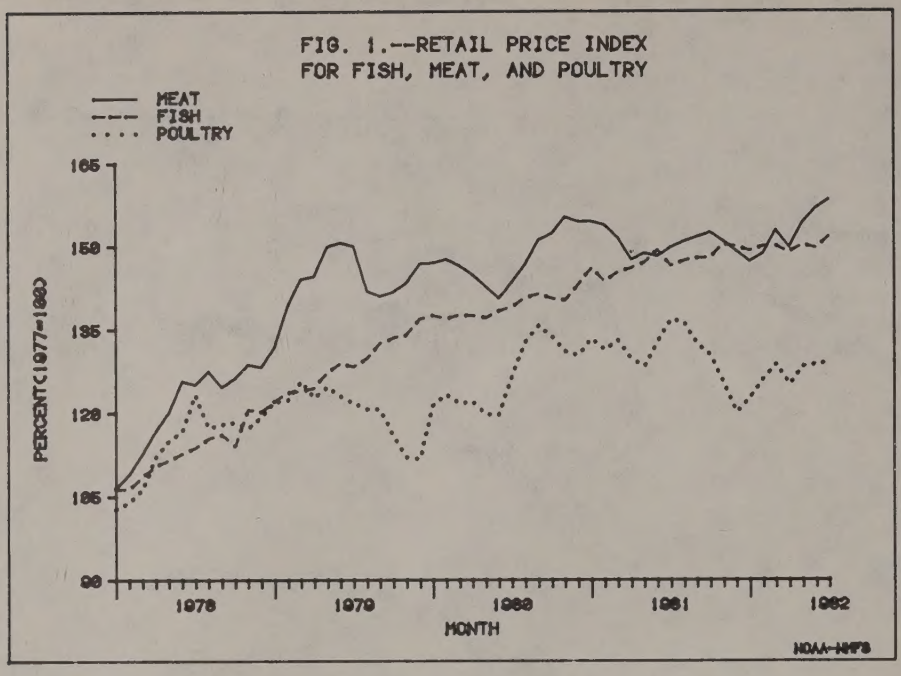
FIG. 1.--RETAIL PRICE INDEX
FOR FISH, MEAT, AND POULTRY
MEAT
FISH
POULTRY
PERCENT(1977=100)
165
150
135
120
105
90
1978
1979
1980
1981
1982
MONTH
NOAA-NMFS

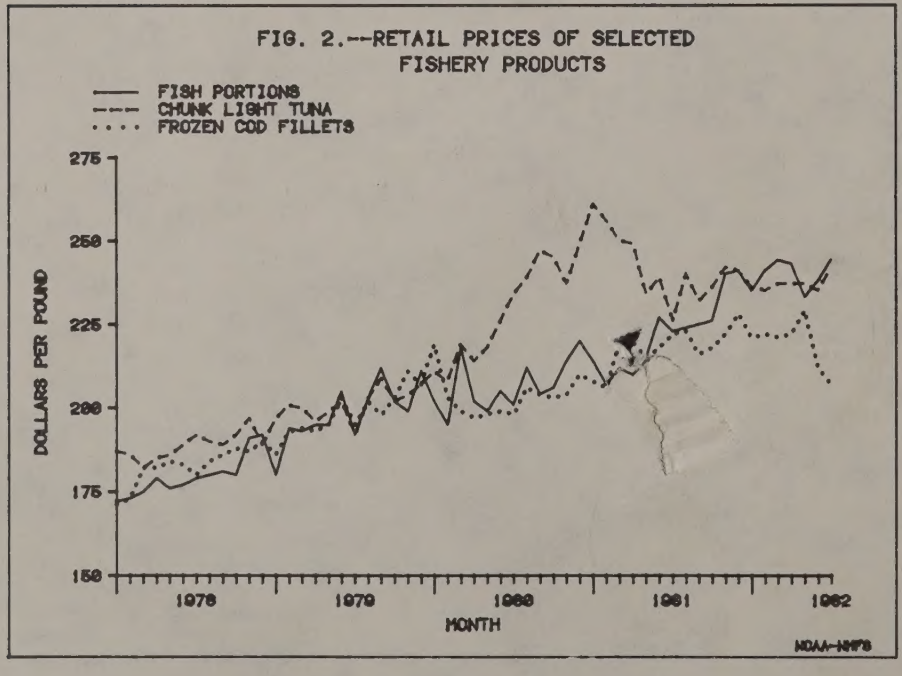
FIG. 2.--RETAIL PRICES OF SELECTED
FISHERY PRODUCTS
FISH PORTIONS
CHUNK LIGHT TUNA
FROZEN COD FILLETS
DOLLARS PER POUND
275
250
225
200
175
150
1978
1979
1980
1981
1982
MONTH
NOAA-NMFS

FOOD FISH MARKET REVIEW

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SUMMARY

Supplies of most finfish products in the first half of 1982 were more than adequate to meet current levels of demand. In the case of canned salmon and tuna, there was an over supply and inventories were high. Demand for most products was generally weak and prices were mostly lower than a year earlier. The U.S. economy slipped in the first half of 1982, although real personal consumption expenditures increased slightly. Unemployment increased and has ranged from 8.5 to 9.5 percent. Retail prices of fishery products increased 2.3 percent from a year earlier compared to a 0.6 percent increase for meat prices and a decline of 3.7 percent for poultry prices (fig. 1). National economic conditions plus lower prices for competing products contributed to the drop off in demand for finfish products.

Fish sticks and portions: Consumption of fish sticks and portions in the first half of 1982 was estimated to have declined from a year earlier. Prices of cod and haddock products were lower and reflected the weak market. Meanwhile, prices of pollock and whiting products were unchanged from a year earlier.

Fish blocks: The use of fish blocks declined sharply in the first half of 1982 and reflected for the most part the weak market for sticks and portions. Because of the drop in block use, imports of blocks were reduced. Prices of cod blocks were fairly steady during most of the first half of 1982, but weakened slightly in June 1982. At the same time, prices of pollock and whiting blocks have trended downward since the first quarter of 1981.

Groundfish fillets: Supplies and consumption of groundfish fillets, except ocean perch, were lower in the first half of 1982 compared to a year earlier. Prices of cod, and ocean perch were moderate. Flounder, haddock, and turbot prices began the year at moderate levels, and strengthened in the first half.

Salmon: Landings of salmon in 1982 were expected to be high again after excellent landings in 1980 and 1981, and should be at least the fifth highest in history. However, in wake of a botulism incident in early 1982 in Europe, already slow sales of canned salmon fell further, causing heavy inventory carryover. Exports of canned salmon in the first half of 1982 were less than half of the year-earlier exports. Exports of fresh and frozen salmon were down 18 percent. The canned pack was only one third of last year's pack as of August 13, 1982. Wholesale prices of canned salmon declined 20 to 27 percent below year-earlier levels. Prices of fresh and frozen salmon were also weak.

Tuna: The tuna industry is facing a severe economic crisis. The sluggish demand for the canned tuna caused heavy inventory buildup. Canners closed their tuna processing plants, restricted purchases from fishermen, cut prices, and reduced imports of raw tuna. Cannery receipts of domestic-caught tuna in the first

half of 1982 were virtually unchanged from a year earlier, but exvessel prices declined 13 to 20 percent. Imports of raw tuna declined 32 percent, which resulted in a 21-percent drop in the pack. Compared with a year earlier, wholesale canned prices for albacore were slightly higher, while those of chunk light tuna declined.

Outlook: The long awaited recovery of the U.S. economy is forecast to occur sometime in the third quarter or early in the fourth quarter. However, the increase in economic activity is expected to be slight, and unemployment remains high. The economy will be helped by lower interest rates and a moderate rate of inflation of about 6 percent. The tax cut will boost consumer income and provide a modest increase in consumer spending and also in restaurant sales. The National Restaurant Association forecast real sales (corrected for inflation) to increase 1.3 percent in the food service industry in 1982, the best in four years.

Supplies of beef are about the same as a year ago, broiler supplies are up slightly, but pork supplies are down sharply. Prices of beef and chicken are expected to be fairly steady through the end of the year and should strengthen in early 1983. Prices of pork products are up, but consumer demand and prices of other products have kept prices from going higher.

Supplies of major block species will be adequate to meet demand for fish sticks and portions through the rest of 1982. Prices for the major species should begin to firm. Supplies of flounder, haddock, and turbot fillets continue to be light and prices will be relatively strong. Supplies of cod and ocean perch are in better shape, but could begin to tighten in early 1983 with prices strengthening in the fourth quarter or in early 1983. Consumption of sticks, portions, and fillets is expected to be at about year-earlier levels with a possibility of some slight improvements.

Supplies of canned salmon and tuna will be plentiful and prices continue to be weak. Prices showed signs of stabilizing in August and should remain near present levels for the rest of 1982. The excellent salmon catch in 1982, plus slow sales and a large carryover of canned products from 1981 have put more emphasis on sales of fresh and frozen salmon. Foreign sales of frozen salmon should be good, although they may not equal last year's record exports. Exports of canned salmon will be lower. High carryover stocks and slow sales of canned tuna have prompted price reductions, and this measure should help sales. Canned tuna prices are expected to be weak for the rest of 1982.

FISH BLOCKS, STICKS AND PORTIONS

STICKS AND PORTIONS

The market for fish sticks and portions appeared to be weak, based on a sharp drop in the use of fish blocks and lower stick and portion prices. Apparent consumption was estimated to have declined 3 to 8 percent from a year earlier (table 1). Prices for cod and haddock sticks and portions in the first half of 1982 were lower than a year earlier, while pollock and whiting products were generally unchanged. Holdings during most of the first half were below 1981 levels.

Table 1.--Supply and use of fish sticks and portions, January-June, 1981 and 1982

Component	1981	1982	Change
	Million pounds		Percent
Beginning stocks	32.0	34.5	+ 8
Production (1)	217.6	196-207	- 10/-5
Imports	1.0	.9	- 8
Total supply	250.6	231-242	- 8/-3
Ending stocks	37.6	33.1	- 12
Exports	.9	2.6	+ 189
Apparent consumption	212.1	196-207	- 8/-3

(1) Range was estimated for 1982.

First quarter production in 1982 declined 2 percent from a year earlier, and consumption was up 0.5 percent. These changes were much less than the 26-percent drop in the use of blocks in the first quarter. First half production of sticks and portions was estimated at 196 to 207 million pounds, 5 to 10 percent below a year earlier (table 1). The decline in production translates into a 3 to 8 percent drop in consumption. Production and consumption have trended downward since their peak in 1979. The decline was caused by numerous factors, the most prominent being the sluggish economy, decreased use of batter-coated products, and increased use of groundfish fillets.

Inventories of fish sticks and portions, except for January and February were below a year earlier as processors made a concerted effort to keep holdings down. Stocks on July 1, 1982 were 33.1 million pounds, 12 percent below a similar date a year ago.

The slowdown in consumption prompted processors to lower prices for cod and haddock products, while pollock and whiting were basically unchanged from a year earlier. Cod and haddock sticks and portions declined 2.5 to 3.7 percent from the first half of 1981, but were higher than the second half of 1981. Prices of pollock products were from 1.1 percent lower to 0.5 percent higher.

FISH BLOCKS

The market for fish blocks in 1982 suffered a sharp decline in use by stick and portion producers, along with softening prices. Block use in the first 6 months of 1982 dropped 20 percent from January-June 1981. Prices of Alaska pollock and whiting blocks have steadily declined since the spring of 1981. Cod block prices in the first half of 1982 were steady at $1.09-$1.10 a pound, and eased off another cent a pound in July 1982. The decline in block use was translated to a similar 21-percent cutback in block imports. Imports of higher-priced blocks have suffered the largest cutback, while lower-priced minced blocks were up slightly and whiting block imports were off slightly.

Use of blocks in the first 6 months of 1982 was 157 million pounds, down 20 percent from the 198 million pounds in January-June 1981 (table 2). With one exception, block use by species or type was lower (table 3). Demand for cod, haddock, pollock, and whiting blocks was lower, with haddock blocks encountering the largest drop. Use of haddock blocks declined 38 percent from a year earlier because of reduced demand for all blocks and of tight supplies. The one exception was minced blocks, which increased 18 percent.

Table 2.--Supply and use of fish blocks, January-June, 1981 and 1982

(Product weight)

Component	1981	1982	Change
	Million pounds		Percent
Beginning stocks	46.7	43.8	- 6
Production	.5	.1	- 80
Imports	197.3	155.2	- 21
Total supply	244.6	199.1	- 19
Ending stocks	46.9	41.7	- 11
Use	197.7	157.4	- 20

Table 3.--Use of fish blocks, by species or type, January-June, 1981 and 1982

Species or type	1981	1982	Change
	Million pounds		Percent
Cod	83.0	72.0	- 13
Pollock	44.1	32.2	- 27
Haddock	26.5	16.4	- 38
Whiting	14.6	13.5	- 8
Minced	12.5	14.7	+ 18
Other	17.0	8.6	- 49
Total	197.7	157.4	- 20

Reduced demand for blocks, in turn, was reflected in lower imports. Blocks imports in the first 6 months of 1982 fell by 21 percent from a year earlier (table 4). Imports of the higher-priced blocks, cod and haddock, declined by 25 and 33 percent, respectively. Meanwhile, imports of lower-priced whiting blocks were off slightly, and minced block imports were up slightly.

Table 4.--Imports of fish blocks, by species or type, January-June, 1981 and 1982

Species or type	1981	1982	Change
	Million pounds		Percent
Cod	90.7	68.4	- 25
Pollock	42.5	35.7	- 16
Haddock	23.4	15.7	- 33
Whiting	14.7	14.6	- 1
Minced	13.1	13.6	+ 4
Other	12.9	7.3	- 43
Total	197.3	155.2	- 21

Inventories of blocks on June 30, 1982 were 41.7 million pounds, 11 percent below a year earlier. Holdings of cod blocks were down 29 percent and haddock blocks declined 70 percent. Whiting blocks were 31 percent greater than a year earlier, and pollock block holdings were 176 percent above a year earlier.

Reduced demand for blocks has been followed by lower block prices for some species. Prices of Alaska pollock and whiting blocks have trended downward for over a year, and were 11 and 8 percent below year earlier prices in the first half of 1982 (fig. 3). Cod block prices in 1982 have been fairly steady at $1.09 to $1.10 a pound, and were 4 percent below a year earlier but were 5 percent higher than in the second half of 1981. Prices of cod blocks dipped another cent a pound in July 1982 to $1.08. While most block prices were steady or lower, there were several exceptions. Prices of haddock and minced cod blocks strengthened in the first half of 1982, up about 11 percent since January 1, 1982.

OUTLOOK

Supplies of major species of blocks are fairly good, while supplies are light for some minor species. Prices of cod blocks have been holding firm at $1.08 a pound during July and August, and are expected to strengthen later in 1982 or early 1983. Prices of Alaska pollock and whiting blocks have hit the lowest levels in several years and should firm somewhat in the fourth quarter.

With good supplies and fairly low or moderate prices for blocks, supplies of fish sticks and portions through the end of 1982 should be adequate. Prices for sticks and portions will remain fairly steady with the possibility of strengthening of cod and haddock products. Consumption of fish sticks and portions will be flat at year-earlier levels.

GROUNDFISH FILLETS

The market for groundfish fillets in the first half of 1982 was fairly good for some but weak for others. Demand was weak for cod fillets, but fairly good for flounder, haddock, and turbot. Supplies were generally light with reasonable prices; however, prices for several species strengthened in the second quarter.

Landings at major North Atlantic ports declined 9 percent, primarily because of lower haddock catches. Imports were off as shipments of flounder and turbot fillets declined. Apparent consumption fell 9 percent from a year earlier to 215 million pounds (table 5). The weak demand for cod and light supplies for flounder, turbot, and haddock caused the drop in consumption.

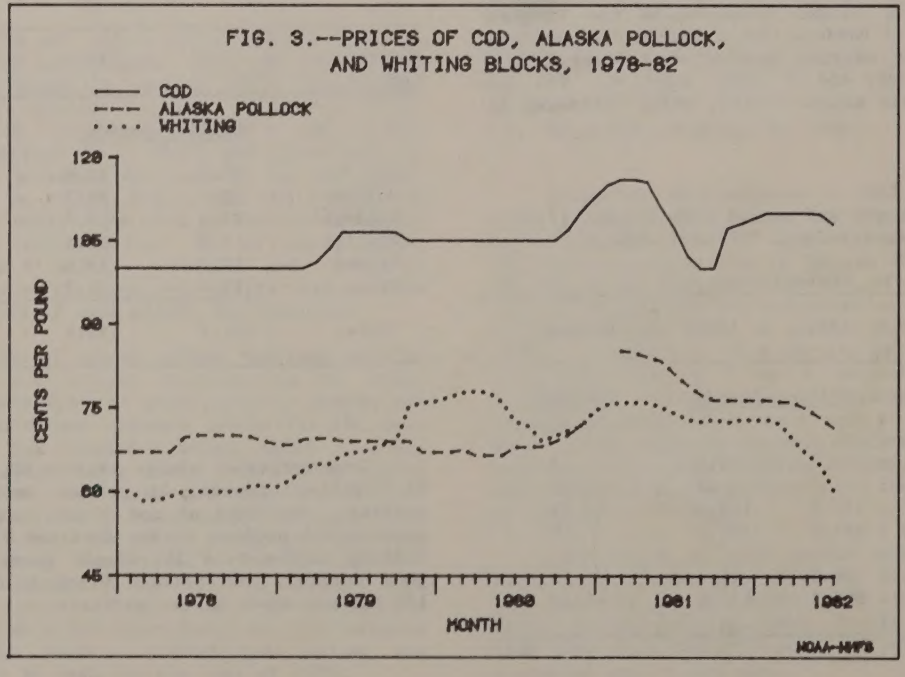


Table 5.--Supply and use of groundfish fillets, January-June, 1981 and 1982

(Fillet weight)

Component	1981	1982	Change
	Million pounds		Percent
Beginning stocks	56.4	61.1	+ 8
Landings (1)	59.9	54.6	- 9
Imports	169.9	147.4	- 13
Total supply	286.2	263.1	- 8
Ending stocks	51.1	48.1	- 6
Apparent consumption	235.2	215.0	- 9

(1) North Atlantic only. Estimated for 1982.

Imports of flounder and turbot fillets were off sharply, and cod imports were off slightly. Only shipments of haddock were greater than a year earlier. Imports of groundfish fillets from Canada, the leading supplier, declined 29 percent, and its share dropped from 58 percent of total imports to 48 percent (table 6). Shipments from Iceland, the second leading supplier, were off 6 percent. Increased shipments from Denmark, Japan, and Norway partially offset the declines from Canada and Iceland.

Table 6.--Imports of groundfish fillets, by country of origin, January-June, 1981 and 1982

(Fillet weight)

Country	1981	1982	Change
	Million pounds		Percent
Canada	99.4	70.3	- 29
Iceland	48.5	45.7	- 6
Japan	10.1	12.2	+ 21
Denmark	3.9	9.5	+ 144
Norway	4.3	5.7	+ 33
Rep. of Korea	0.8	1.3	+ 62
Other	2.8	2.6	- 7
Total	169.9	147.4	- 13

COD

Prices for cod fillet were down from a year earlier, while turbot and ocean perch fillets were higher. Prices for flounder and haddock fillets were about the same as in the first half of 1981. In the second quarter of 1982, prices for flounder, turbot, and haddock fillets strengthened because of the light supplies, but weakened for cod and ocean perch fillets.

COD

The cod fillet market in the first half of 1982 reflected the general weakness in seafood sales and the U.S. economy. Landings and imports were off slightly, and the weak demand was a factor in the one-third increase in ending inventories. First half consumption declined 10 percent from a year earlier. This caused wholesale prices to weaken from $1.15 a pound in March to $.95 in July 1982.

Landings of cod in the North Atlantic States amounted to 17.2 million pounds (fillet weight), off 4 percent from the first half of 1981. Imports declined slightly to 84 million pounds, down one million pound from a year earlier. Imports from Canada, the leading supplier to the United States in the last two years, increased 4 percent to 43.7 million pounds. Imports from Iceland, the major supplier in 1980, declined by one-quarter to 25.6 million pounds in the first half of 1982.

Holdings of cod fillets were below 1981 levels in the first quarter of 1982, then surpassed year-earlier levels in the second quarter. Heavier imports in the second quarter and a weaker market caused the increase. Holdings on July 1, 1982 were 24.8 million pounds, up 34 percent from a year earlier.

Table 7.--Supply and use of cod fillets, January-June, 1981 and 1982

(Fillet weight)

Component	1981	1982	Change
	Million pounds		Percent
Beginning stocks	19.7	16.9	- 14
Landings (1)	17.9	17.2	- 4
Imports	85.2	84.2	- 1
Total supply	122.8	118.3	- 4
Ending stocks	18.5	24.8	+ 34
Apparent consumption	104.3	93.4	- 10

(1) North Atlantic only. Estimated for 1982.

Consumption of cod fillets in the first half of 1982 fell 10 percent below the record first half consumption in 1981. Demand for cod fillets was weaker than the overall demand for groundfish fillets.

Wholesale prices of Canadian cod fillets weakened in the second quarter from the 1982 high of $1.15 a pound in March to $.95 in July. Prices in 1982 averaged 5 percent below year earlier prices. Meanwhile, Icelandic boneless cod fillets remained unchanged at $1.80 a pound since they were raised 20 cents a pound in June 1981. At the retail level, prices of frozen cod fillets averaged $2.19 a pound, up 2 percent above the first half of 1981.

Table 8.--Supply and use of flounder fillets, January-June, 1981 and 1982

(Fillet weight)

Component	1981	1982	Change
	Million pounds		Percent
Beginning stocks	12.5	17.3	+ 38
Landings (1)	23.2	23.7	+ 2
Imports	28.4	9.9	- 65
Total supply	64.1	50.9	- 21
Ending stocks	18.6	6.1	- 67
Apparent consumption	45.5	44.8	- 2

(1) North Atlantic only. Estimated for 1982.

FLOUNDER

The year started with record beginning inventories and fairly low wholesale prices. Demand was fairly good, however, consumption fell slightly from a year earlier. The situation turned around in the second quarter as supplies were off sharply and prices strengthened. Holdings were down two-thirds on July 1, 1982 from the previous year. Wholesale prices advanced 18 percent during the second quarter.

Landings of flounder in the U.S. North Atlantic States were up slightly in the first half of 1982 to 23.7 million pounds (fillet weight). Flounder landings in Canada in the first 6 months of 1982 were down by more than one-third and were the major reason for the large drop in imports. First half imports totaled 9.9 million pounds, off 65 percent from last year's record imports. Imports from Canada in the first half of 1982 were 6.4 million pounds, down from 24.3 million pounds in the similar period in 1981.

Holdings of flounder fillets began to accumulate in the second half of 1981 and remained high through the first quarter of 1982. Holdings on January 1, 1982 were 17.3 million pounds, up 38 percent above the same date a year earlier and a record for this date. Stocks were reduced in the first quarter to more normal levels, and continued to dwindle as imports were in short supply. Holdings on July 1, 1982 amounted to 6.1 million pounds, down 67 percent from a year earlier and 9 percent below the 1978-80 average for this date.

Apparent consumption of flounder fillets in the first half of 1982 declined slightly from last year's record first half consumption, down 2 percent to 44.8 million pounds. First half consumption was 15 percent above the 1978-80 average of 39.1 million pounds.

Wholesale prices of Canadian flounder fillets in the first half of 1982 strengthened after being fairly steady during 1981 (fig. 5). Prices were steady in the first quarter, then rose sharply in the second quarter from $1.25 a pound in March to an average of $1.48 in June 1982. Wholesale prices, however, were about 8 cents a pound below record prices in the first quarter of 1980. Although wholesale prices were increasing in 1982, retail prices of frozen fillets were about the same as in the first half of 1981. Retail prices in the first 7 months of 1982 ranged from a low of $2.78 to $2.94 a pound.

TURBOT

Total supplies of turbot fillets in the first half of 1982 continued to be light with imports down sharply. Prices of Canadian turbot fillets have strengthened since the beginning of 1982. Consumption in the first half of 1982 fell by more than one-third.

Total imports were off 39 percent in the first 6 months of 1982 to 5.5 million pounds. Shipments from Canada amounted to 0.8 million pounds, down 80 percent from January-June 1981, and reflected a similar drop in landings. Imports from Japan, the leading supplier to the United States declined 16 percent to 3.8 million pounds in 1982. Japanese catches were lower and their domestic demand remained strong.

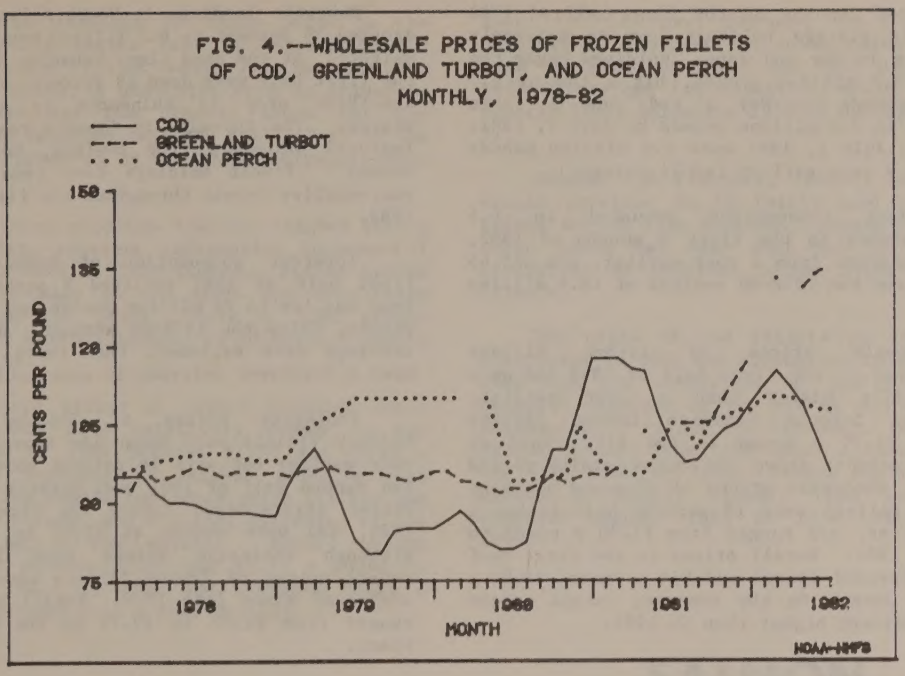
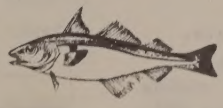


FIG. 4.--WHOLESALE PRICES OF FROZEN FILLETS
OF COD, GREENLAND TURBOT, AND OCEAN PERCH
MONTHLY, 1978-82
COD
GREENLAND TURBOT
OCEAN PERCH
CENTS PER POUND
150
135
120
105
90
75
1978
1979
1980
1981
1982
MONTH
NOAA-NMFS



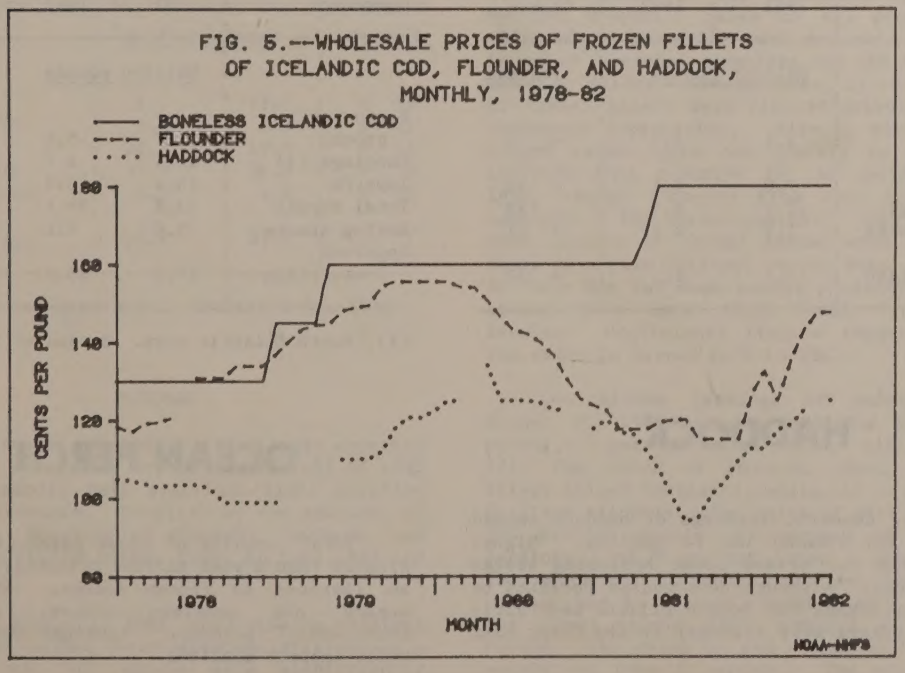


FIG. 5.--WHOLESALE PRICES OF FROZEN FILLETS
OF ICELANDIC COD, FLOUNDER, AND HADDOCK,
MONTHLY, 1978-82
BONELESS ICELANDIC COD
FLOUNDER
HADDOCK
CENTS PER POUND
160
140
120
100
80
1978
1979
1980
1981
1982
MONTH
NOAA-NMFS

Reduced imports in the first half of 1982 drove cold storage holdings down to extremely low levels in May and June. Holdings began the year at 3.3 million pounds, hit a low of 0.7 million pounds on May 1 and June 1, then increased to 2.3 million pounds by July 1, 1982. Stocks on July 1, 1982 were 0.4 million pounds more than a year earlier (up 21 percent).

Apparent consumption amounted to 6.5 million pounds in the first 6 months of 1982, down 38 percent from a year earlier, and off 65 percent from the 1978-80 average of 18.4 million pounds.

Wholesale prices of turbot fillets strengthened in the first half of 1982 and were substantially higher than a year earlier. Prices of 5-pound Canadian turbot fillets averaged $1.29 a pound in the first half of 1982, 35 percent above the corresponding period in 1981. Wholesale prices of 25-pound packs of Japanese fillets were 19 percent higher than a year earlier, and ranged from $1.30 a pound to $1.50 in 1982. Retail prices in the first half of 1982 trended upward and hit a record $2.30 a pound in June. On the average, retail prices were 12 percent higher than in 1981.

Table 9.--Supply and use of turbot fillets, January-June, 1981 and 1982

(Fillet weight)

Component	1981	1982	Change
	Million pounds		Percent
Beginning stocks	3.4	3.3	- 3
Landings	-	-	- -
Imports	9.0	5.5	- 39
Total supply	12.4	8.8	- 29
Ending stocks	1.9	2.3	+ 21
Apparent consumption	10.5	6.5	- 38

Domestic landings in North Atlantic States dropped 36 percent to 6.7 million pounds (fillet weight). At the same time, Canadian landings in the first half were down 29 percent and led to a one-third drop in shipments to the United States. The increase in imports resulted from improved shipments from Iceland, Denmark, and Norway. Frozen holdings have remained below year-earlier levels throughout the first half of 1982.

Apparent consumption of haddock in the first half of 1982 declined 9 percent from a year earlier to 25 million pounds and was only 2 percent below the 1978-80 average. If domestic landings were excluded, then there would have been a 6-percent increase in consumption.

Wholesale prices of 5-pound Canadian haddock fillets were about the same level as a year earlier but were 16 percent above those of the second half of 1981 when markets were weak. Prices strengthened during the first half of 1982, and were quoted at $1.25 in July 1982. Although wholesale prices have fluctuated, retail prices of frozen fillets were generally unchanged since late 1979. Retail prices have ranged from $2.52 to $2.71 in the last 2-1/2 years.

Table 10.--Supply and use of haddock fillets, January-June, 1981 and 1982

(Fillet weight)

Component	1981	1982	Change
	Million pounds		Percent
Beginning stocks	7.7	5.6	- 27
Landings (1)	10.4	6.7	- 36
Imports	15.1	16.8	+ 11
Total supply	33.2	29.1	- 12
Ending stocks	5.6	4.1	- 27
Apparent consumption	27.6	25.0	- 9

(1) North Atlantic only. Estimated for 1982.

HADDOCK

Lower domestic landings of haddock caused supplies and consumption to decline. Higher imports did not offset lower beginning stocks and landings. Although consumption declined by 9 percent, demand for frozen fillets was fairly good and prices were stronger in the first half of 1982.

OCEAN PERCH

Total supplies of ocean perch fillets were greater than a year earlier primarily because of an increase in frozen stocks. With fairly steady and moderate prices, consumption increased 7 percent. Landings were higher, while imports declined.

Domestic landings of ocean perch in the North Atlantic region rose 21 percent to 2.9 million pounds (fillet weight). Imports were off 12 percent. A one-third drop in shipments from Canada was the primary cause for the decline, as Canadian landings fell. Part of the slack was taken up by increased shipments from Iceland.

With total supplies 8 percent higher than a year earlier, apparent consumption increased 7 percent to 31.4 million pounds. Frozen stocks were fairly high at the start but were drawn down during the year. July 1, 1982 stocks totaled 4.9 million pounds, up 20 percent from a year earlier.

Wholesale prices of frozen Canadian ocean perch fillets were relatively steady in the first half of 1982 between $1.05 and $1.10 a pound and averaged 12 percent above a year earlier. The demand for ocean perch fillets was not really strong, and a slight softening of the price reflected the market. Retail prices fluctuated between $2.07 and $2.24 a pound in the first half of 1982 and averaged $2.15 a pound, unchanged from a year earlier.

Table 11.--Supply and use of ocean perch fillets, January-June, 1981 and 1982

(Fillet weight)

Component	1981	1982	Change
	Million pounds		Percent
Beginning stocks	8.7	13.8	+ 59
Landings (1)	2.4	2.9	+ 21
Imports	22.3	19.6	- 12
Total supply	33.5	36.3	+ 8
Ending stocks	4.1	4.9	+ 20
Apparent consumption	29.4	31.4	+ 7

(1) North Atlantic only. Estimated for 1982.

OUTLOOK

Supplies of groundfish fillets are expected to improve seasonally in the second half of 1982 and this should help alleviate light supplies for some products. Supplies of cod continue to be ample. Supplies of flounder, haddock, and turbot are likely become tight in late 1982 and into 1983.

As of August 1, 1982, cold storage holdings of cod and turbot were substantially above a year earlier, but stocks were significantly lower for flounder, haddock, and ocean perch. Holdings of flounder and ocean perch increased from the previous month and were close to the 1978-80 average for August 1, while they were substantially below the 1978-80 average for July 1.

Demand for flounder, turbot, and haddock should continue to be fairly good as long as prices do not rise further. Demand for cod and ocean perch has been soft but is likely to strengthen as supplies become tight for other fillets.

The price of cod fillets is expected to firm later in 1982 and strengthen in early 1983. They are not likely to be really strong as Canadian landings of cod are up and stocks are increasing. Prices of flounder, turbot, and haddock should level off after a strong rise in the first half of 1982. Prices for ocean perch should be fairly steady, then increase as supplies become tight in late 1982 or early 1983.

SALMON

According to preliminary figures, the U.S. salmon catch will be high again in 1982, as in 1980 and 1981, though not as high as had been expected prior to the beginning of the main harvest season. Sales of all products were affected by generally weak economic conditions in major consuming countries and the strength of the U.S. dollar. Nevertheless, first-half sales of frozen salmon were limited primarily by low carryover inventories. Already slow sales of canned salmon were cut sharply by a botulism incident that occurred in the early weeks of 1982, though recovery from that incident was underway in the second quarter. Even so, first-half exports of canned salmon were about half those of a year earlier; prices were cut sharply in late May for some canned products as canned stocks were more than double year-earlier levels. Preliminary figures suggest a sharp reduction in canned pack in 1982.

The Alaska landings of salmon through August 21, 1982 were an estimated 495 million pounds, 9 percent above a year earlier (table 12). The catch of chinook, chum, pink, and silver salmon increased, while the catch of reds declined slightly. The catch of pink salmon was 214 million pounds, 43 percent of the total landings, and 9 percent above a year earlier. The catch for chinooks and chums increased 46 percent and 15 percent, respectively. Landings for silver salmon almost doubled to 21 million pounds. The catch of red salmon of 167 million pounds was down 1 percent. The catch of reds

could have been greater if the price dispute between fishermen and processors had been settled before the start of the fish run. In the Bristol Bay area, a price of 70 cents a pound for fish destined for the fresh and frozen market and a price of 56 cents a pound for fish to be canned were accepted on July 7, 1982. Last year, no fishing time had been lost because there was an early settlement on an exvessel price of 75 cents a pound for red salmon.

Table 12.--Alaska landings of salmon, by species, through August 21, 1981 and 1982

Species	1981	1982
	Thousand pounds	
Chinook	12,275	17,968
Chum	65,884	75,568
Pink	195,955	213,812
Red	168,228	166,933
Silver	10,448	20,820
Total	452,790	495,101

Source: NMFS, Fishery Market News Report Seattle, Washington. Numbers of fish converted to weight for 1982, assuming 21-lb chinooks, 7.4-lb chums, 4.1-lb pinks, 6-lb reds, and 6.1-lb silvers.

In the wake of a botulism incident in early 1982 in Europe, already slow sales of canned salmon fell further, causing heavy inventory carryover into the new season. Two cases of botulism (one fatal) resulted from consuming one 7-3/4 oz ounce can of U.S. packed salmon in Belgium in late January 1982. That can had a small hole which was attributed to one can company's reforming equipment for 1/2-pound cans only. Subsequent product recalls totaled an estimated 60 million cans of that size (0.6 million standard cases of 48 1-pound cans). The recalled salmon is being tested to assure product safety. Also, new inspection legislation was passed in Alaska prior to the beginning of the 1982 canning season and other actions were taken to assure product safety.

The Alaska-Washington canned salmon pack totaled an estimated 814,000 standard cases (48 1-pound cans) as of August 13, 1982, which is 33 percent of that of a year earlier. The pack of 1/2-pound cans, the size which had been recalled, fell most severely--down 77 percent from a year earlier. The pack of 1-pound, 1/4-pound, and 4-pound cans declined less, 61, 60, and 69 percent, respectively. By species, the pack of reds, pinks, and chums declined 73 percent, 51 percent, and 76 percent, respectively, but the pack of 1/2-pound pink salmon fell the most--down 80 percent below a year earlier.

The pack of canned salmon in British Columbia, Canada was 272,309 standard cases as of July 31, 1982, a decrease of 57 percent below the same period of last year. Again this year, salmon was shipped from the United States for canning, and contributed 6 percent of the total pack in British Columbia (16,164 standard cases).

U.S. foreign sales of canned, fresh, and frozen salmon fell in the first half of 1982, compared with a year earlier. The sales of canned salmon fell more than the sales of fresh and frozen salmon because of the botulism incident. Foreign sales of canned salmon declined to 14 million pounds from 30 million pounds, down 53 percent. Total exports of canned salmon were running about half year-earlier levels in January and February 1982, fell sharply in March and April, and began to recover in May, exceeding year-earlier levels in June, but falling to half year-earlier levels in July. Exports of canned salmon are seasonally low in the first half, and exports in July 1981 and July 1982 equaled respective first-half exports.

First-half shipments to the United Kingdom, our major buyer, declined from 16 million pounds in 1981 to 6 million pounds in 1982, down 64 percent. Shipments to Canada, Australia, Netherlands, and others declined. However, purchases by France increased, but at reduced prices.

Total processor shipments of canned salmon were down 23 percent in January-June 1982, while exports were down 53 percent from high year-earlier levels. Processor shipments were down 29 percent in both March and April 1982, while exports were down 88 percent in March and 73 percent in April. These comparisons suggest that domestic sales of canned salmon were much less affected by the botulism incident than foreign sales.

While U.S. exports of canned salmon declined substantially, Canadian exports of canned salmon increased to 14 million pounds in January-May 1982, up 30 percent from a year earlier. Shipments from Canada to all buyers (United Kingdom, Australia, Belgium-Luxemberg, and New Zealand) increased substantially. The botulism incident, and the strengthening of the U.S. dollar may have helped increase sales of Canadian canned salmon.

Table 13.--U.S. exports of salmon products, January-June, 1981 and 1982

Item	1981		1982	
	Thou. lbs.	Thou. dol.	Thou. lbs.	Thou. dol.
Fresh & Frozen				
Chinook	1,304	3,917	511	1,406
Chum	8,161	11,959	4,790	7,856
Pink	3,064	5,044	3,473	4,210
Red	4,093	9,420	6,715	13,374
Other	10,169	18,951	6,419	12,066
Total	26,791	49,291	21,908	38,912
Steaks, other	1,567	3,344	460	954
Canned				
Chum	1,640	2,536	1,744	2,315
Pink	14,011	24,530	6,369	10,173
Red	10,830	25,630	4,536	10,250
Other	3,712	7,383	1,657	3,098
Total	30,193	60,079	14,306	25,836
Salmon roe	1,973	9,599	438	1,728

Table 14.--Exports of canned salmon by country of destination, January-June, 1981 and 1982

Country	1981		1982	
	Thou. lbs.	Thou. dol.	Thou. lbs.	Thou. dol.
United Kingdom	15,513	32,665	5,530	10,326
Canada	4,851	8,455	2,787	5,027
Australia	2,935	5,994	1,371	2,796
Netherlands	2,271	4,482	1,642	2,611
Belgium/Lux.	1,805	3,088	545	895
France	249	494	1,111	1,706
Japan	470	1,007	109	286
Other	2,099	3,894	1,210	2,189
Total	30,193	60,079	14,305	25,836

Largely because of lower beginning inventories, U.S. exports of fresh and frozen salmon diminished in the first half of 1982 to 23 million pounds, off 18 percent from a year earlier. The decline was reflected in drops in purchases by all major buyers. Shipments to Japan decreased 7 percent. Purchases by France, Canada, and United Kingdom also decreased. Only sales to Sweden increased. Although the quantity of U.S. exports of fresh and frozen salmon was off by 18 percent, the value declined by a greater percentage, down by 21 percent. The reduction in value reflected some price weakness, which is associated with the abundance of world salmon supplies, the strengthening of the U.S. dollar, and weak economic conditions in major consuming countries.

Table 15.--Exports of fresh and frozen salmon, whole or eviscerated by country of destination, January-June, 1981 and 1982

Country	1981		1982	
	Thou. lbs.	Thou. dol.	Thou. lbs.	Thou. dol.
Japan	10,569	18,232	9,820	17,195
Canada	2,940	4,516	1,571	2,398
France	4,678	10,381	3,968	8,563
United Kingdom	3,591	6,219	1,764	2,133
Sweden	910	1,502	2,464	3,464
Belgium/Lux.	706	1,567	393	953
Fed. Rep. of Germany	437	1,157	286	410
Other	2,960	5,716	1,644	3,796
Total	26,791	49,290	21,910	38,912

U.S. wholesale prices of canned salmon were reduced in late May 1982, sharply for chum and pink salmon. By August, prices of red salmon had been virtually restored to year-earlier levels, while chums and pinks remained markedly lower (fig. 6). Wholesale prices for 1-pound cans of red salmon were $113 a case in February 1982, 2 percent above a year ago, but they were reduced to $107 a case in May-June 1982, down 4 percent from a year earlier. Case prices of 1-pound pink and chum salmon were 2 percent and 1 percent below a year earlier in early 1982, but they were 20 percent and 27 percent below a year earlier in May-June 1982. Prices of 1-pound canned pink salmon were reduced by $14 to $69 a case in May-June 1982, while a case of chum salmon was lowered by $20 a case to $54 a case in May-June 1982.

In Japan, the major market for frozen U.S. salmon, there were also mid-year price corrections. Japanese wholesale prices of frozen salmon were increased somewhat in August 1982, though the increase from year-earlier levels is more pronounced in yen than in dollars because of the stronger dollar. Comparison of Japanese and U.S. prices over the 1977-82 period provides an interesting contrast (fig. 6 and 7). Japanese prices were below those of 1977-78, and consumption increased. Japanese prices of frozen red salmon especially are important to U.S. producers, and U.S. exports account for the

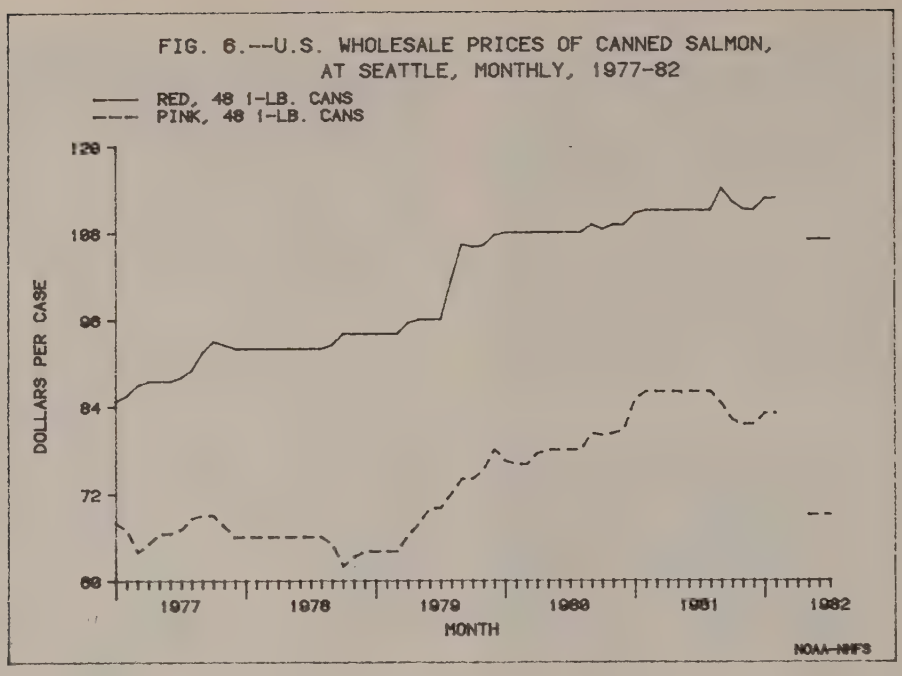


FIG. 6.--U.S. WHOLESALE PRICES OF CANNED SALMON,
AT SEATTLE, MONTHLY, 1977-82
RED, 48 1-LB. CANS
PINK, 48 1-LB. CANS
DOLLARS PER CASE
120
108
96
84
72
60
1977
1978
1979
1980
1981
1982
MONTH
NOAA-NMFS

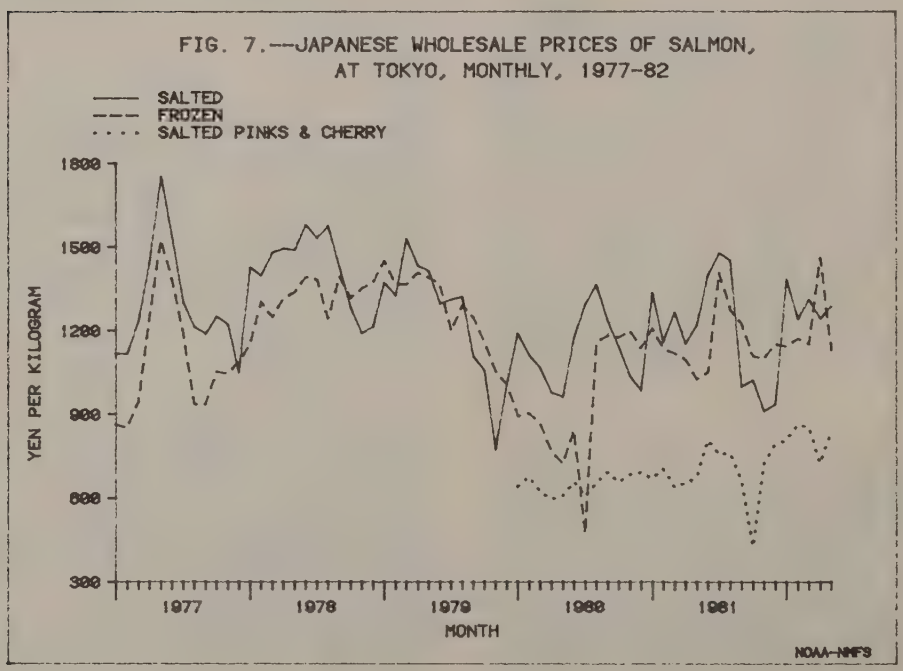


FIG. 7.--JAPANESE WHOLESALE PRICES OF SALMON,
AT TOKYO, MONTHLY, 1977-82
SALTED
FROZEN
SALTED PINKS & CHERRY
YEN PER KILOGRAM
1800
1500
1200
900
600
300
1977
1978
1979
1980
1981
MONTH
NOAA-NMFS

dominant share of Japanese supplies of red salmon. While U.S. exports of both frozen and canned salmon have become increasingly important to U.S. producers, the domestic market for canned salmon is still larger than the foreign market for the canned product, and it is likely that the lower prices introduced in 1982 will stimulate domestic sales. U.S. consumption of canned salmon has fallen since 1978, despite sharply higher production.

OUTLOOK

The 1982 salmon catch in Alaska is now expected to be 105 million fish, not 135 million fish as had been expected prior to the beginning of the main season. This is down from the 111 million salmon harvested in 1981, but still the fifth highest in history.

Because of the lowered expectations for U.S. harvests, there is less chance that world supplies of salmon will increase more than demand in 1982 for both canned and frozen salmon products. It is likely that the U.S. canned pack will be much lower in 1982 than in 1981, but it will boost already high carryover stocks, and demand for canned salmon has fallen far more sharply in 1982 than in 1981, because of the botulism incident. The strength of demand for U.S. frozen salmon will be limited in 1982 and early 1983 by sluggish U.S. and foreign national economic conditions, by competition from rising output in Europe and Japan, by an already strong U.S. dollar, and by dominance of pink salmon in the U.S. catch in comparison with established buyer preferences for other species.

Foreign competition with U.S. exports depends on species and end uses, and is not necessarily measured by increases in the total foreign catch of salmon. In Europe, increasing production of farm-reared Atlantic salmon is being promoted as fresh fish, whereas a significant amount of frozen U.S. salmon is used in making smoked salmon. In Japan, increasing production is of hatchery-based fall chum salmon. Red salmon is the chief species exported frozen from the United States to Japan. The Japanese chum salmon is most likely to compete with U.S. exports of frozen salmon of species other than red salmon, notably chum and pink salmon.

TUNA

The U.S. tuna industry is facing what is reportedly one of the worst economic crises in its 80-year history. The cost of harvesting continues to climb, although at a slower rate as inflation slows. Also affecting costs is the fact that fishermen are facing increased competition on the fishing grounds and have to travel farther on average, having been essentially cut off from some of their traditional fishing grounds off Mexico and other Latin American countries. Despite increased costs of harvesting, exvessel prices received by fishermen had remained unchanged for about two years, and were reduced sharply in 1982. The cost-revenue squeeze is especially worrisome to fishermen with mortgages on relatively new vessels. New high-seas tuna purse seiners now cost $12 million. Processors are facing sluggish sales, high inventories, and import competition for canned tuna. To prevent further buildup of inventories of canned products, they have closed plants, sometimes for indefinite periods, restricted purchases from fishermen, and cut imports of raw tuna.

Cannery receipts of domestic-caught tuna and bonito in the first half of 1982 were 105,000 short tons, virtually unchanged from a year earlier. Receipts of skipjack declined 19 percent to 45,623 short tons, while yellowfin increased 22 percent to 59,232 short tons. Receipts of skipjack by the U.S. continental canneries declined 33 percent, which resulted in the decreased total receipts of domestic-caught skipjack, while receipts of yellowfin by all canneries increased (continental, Hawaiian, American Samoan, and Puerto Rican canneries).

Table 16.--U.S. cannery receipts of raw tuna, including Puerto Rico and American Samoa, by species, January-June, 1981 and 1982

Type and Species	1981	1982	Change
	Short tons		Percent
Domestic-caught			
Albacore	29	186	+ 541
Bluefin	1	-	-
Skipjack	56,296	45,623	- 19
Yellowfin	48,627	59,232	+ 22
Bonito	601	256	- 57
Total	105,554	105,297	-
Imports (1)			
Albacore	41,891	46,282	+ 10
Bluefin	-	109	-
Skipjack	97,788	61,952	- 37
Yellowfin	56,236	25,439	- 55
Total	195,915	133,782	- 32
Grand total	301,469	239,079	- 21

(1) Includes foreign-caught tuna landed in American Samoa.

Both the distant-water purse-seine fleet, which harvests mostly skipjack and yellowfin tuna, and the albacore boats and vessels have faced reduced access to fishing grounds off foreign coasts. One bright spot is that the outlook for the albacore resources is generally good. The traditional albacore season starts in summer and ends in early fall with fish making a Northern Pacific circle going almost to Japan. Now, a spring and winter fishery for albacore has been developed in the mid-Pacific, off Midway, and could result in a steadier supply of albacore on a year-round basis.

Cannery receipts of imported raw tuna were 134,000 short tons in the first half of 1982, down 32 percent from the same period of 1981 (table 16). Imports of albacore increased 10 percent, while imports of yellowfin and skipjack declined 55 and 37 percent, respectively.

Japan was the major supplier of raw tuna with 24 percent of the total, France was second with 15 percent, followed by Taiwan and Panama. However, Taiwan was the major supplier of albacore tuna with 37 percent of total albacore imports. There were embargoes on tuna imports from four countries, namely Spain, Peru, Mexico, and Ecuador. Imports of yellowfin tuna and yellowfin tuna products from Spain caught in the Eastern tropical Pacific tuna regulatory area have been prohibited. Other embargoes were based either on seizures of U.S. tuna boats under 200-mile limit rules of individual foreign countries or on the U.S. Marine Mammal Protection Act. There were no tuna imports from those countries, except Spain.

While imports of raw tuna declined 32 percent, imports of canned tuna were 16 percent above a year earlier. Imports of canned tuna normally account for 6-10 percent of the U.S. supply. Recently, imports of canned tuna have increased dramatically primarily from four Far East countries, namely Thailand, Philippines, Indonesia, and Taiwan. An Australian tuna canning company opened tuna canneries in Thailand, Philippines, and Indonesia mainly to export to the United States and Europe. The 1982 quota on U.S. imports of water-pack canned tuna is 109,742,200 pounds at 6 percent ad valorem duty. Imports in excess of the quota are dutiable at 12.5 percent. As of August 5, 1982, the official quota for imports was 90 percent filled. However, the strong U.S. dollar against the currencies of those Far East countries may stimulate imports of canned tuna even over the quota.

To cut high inventories, some canneries shut down and/or reduced their buying of fish. On April 23, Star-Kist closed their tuna processing plants in American Samoa and San Pedro, California. The plant in American Samoa resumed tuna processing about three weeks later. In San Pedro, Star-Kist called back some 2,000 cannery workers on the day shift on May 25, and some 1,000 night shift workers were called back on July 6. The Bumble Bee tuna cannery in San Diego was closed in mid-May for an indefinite period.

With reduced receipts of raw tuna (mostly imported), the pack of canned tuna and bonito decreased from 14.7 million cases in the first half of 1981, to 11.7 million cases in the same period of 1982--down 21 percent. However, the white meat pack (2.5 million cases) was up 11 percent, while the light meat pack decreased 26 percent. The U.S. tuna market appears weak and unsettled. Inventories are at reportedly high levels. To stimulate tuna sales, prices have been cut and heavier promotional allowances have been given.

Exvessel prices, a good measure of economic conditions, have been reduced in 1982. Prices cuts were similar to those of 1975 on a percentage basis. The premium albacore tuna was reduced to $1,425 per short ton in early July 1982 from the $1,800 that had prevailed from June 1981. Exvessel prices of skipjack had remained at $1,100 a short ton from March 1980 to March 1982, but declined to $1,040 in April-May 1982, and further declined to $890 in June 1982. Exvessel prices of yellowfin followed a similar pattern to that of skipjack; the price was cut to $1,050 in July 1982 from $1,200 a year earlier.

Weak markets were reflected in softening wholesale prices of canned tuna in early 1982. Wholesale list prices of light chunk tuna moved downward, while those of white meat tuna rose but less than in previous years (fig. 8). Canners have given promotional allowances, up to $14.50 a case off list prices for chunk light tuna and $12 a case for solid white, compared with allowances of $6 and $13 in 1981. It is reported that some trading with greater promotional allowances has occurred. In the first half of 1982 compared with a year earlier, albacore tuna list prices were 8 percent higher for advertised brands than year earlier, and 2 percent higher for private brands. List prices for advertised brands of chuck light tuna declined 4 percent and list prices for private brands declined 8 percent.

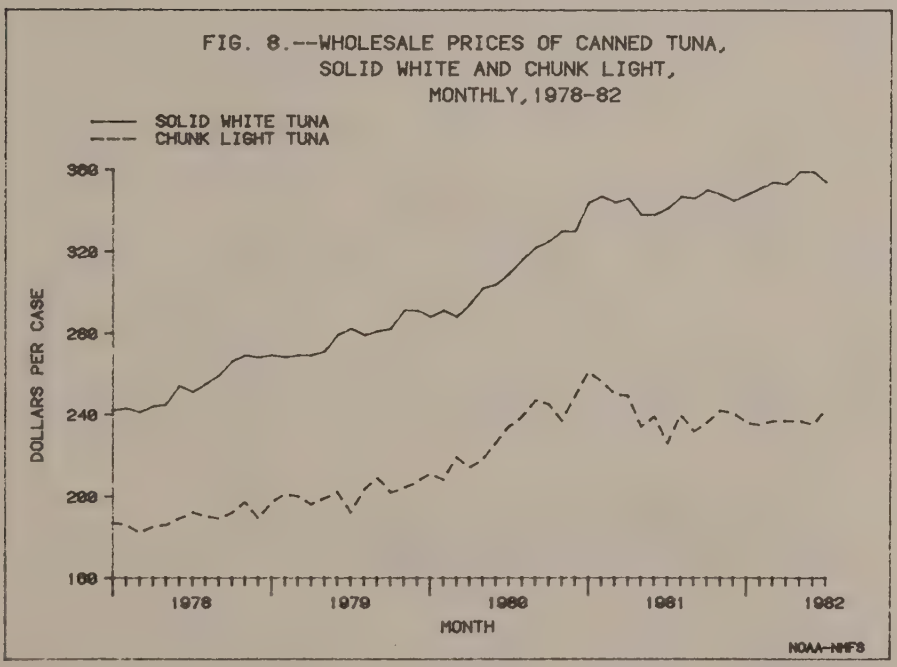
The list price for 6-1/2 oz cans of advertised light chunk tuna was $51.00 a case from August 1981 to February 1982, but declined to $48.28 in March-April 1982, and further declined to $47.84 in May-June 1982. The list price for private label light chunk had remained at $39.50 a case from October 1980 to December 1981, but declined to $38.00 in January-April 1982, and further declined to $36.50 in May-June 1982. Reportedly, some imported water-pack tuna has been selling for much less than domestic tuna.

At retail, the price for a 7-oz can of white solid tuna rose steadily from $1.51 in December 1981 to $1.57 in May-June 1982, while the price of light chunk tuna dropped slightly from $0.98 for a 6-1/2 oz can in December 1981 to $0.96 in May-June 1982. Compared with a year earlier, a can of white solid averaged 3 percent higher, while a can of light chunk was 5 percent lower in the first half of 1982.

OUTLOOK

U.S. total supplies of canned tuna are likely to remain ample for what appears to be a flattening domestic demand in 1982. With an outlook for stable prices for beef and poultry, and little strength in the national economy in the second half, tuna prices will likely remain weak in the rest of 1982.

FIG. 8.--WHOLESALE PRICES OF CANNED TUNA, SOLID WHITE AND CHUNK LIGHT, MONTHLY, 1978-82



TUNA, YELLOWFIN

STATISTICAL APPENDIX

Note:

Per capita consumption data were revised from 1970 through 1980 to reflect the results of the 1980 census.

Table A1.--Supply and use of fish sticks and portions, 1960-81

(Product weight)

Year	Supply					Use			
	Beginning stocks	Production			Imports	Total	Ending stocks	Exports	Apparent consumption	
		Sticks	Portions	Total					Total	Per capita
	Million pounds									Pounds
1960	6.9	65.1	49.4	114.5	0.2	121.6	9.1	n.a.	112.5	0.625
1961	9.1	69.8	59.8	129.6	0.5	139.2	10.5	n.a.	128.7	.703
1962	10.5	72.2	78.7	150.9	0.3	161.7	11.5	n.a	150.1	.807
1963	11.6	79.3	94.6	173.9	0.4	185.9	13.6	n.a.	172.1	.912
1964	13.6	73.6	106.3	179.9	0.2	193.7	8.1	n.a.	185.6	.969
1965	8.1	82.5	140.4	222.9	0.3	231.3	20.2	n.a.	211.1	1.091
1966	20.2	81.4	147.6	229.0	0.4	249.6	19.5	n.a.	230.1	1.176
1967	19.5	73.9	161.3	235.2	0.4	255.1	14.0	n.a.	241.1	1.222
1968	14.0	91.7	182.8	274.5	0.9	289.4	24.0	n.a.	265.4	1.328
1969	24.0	113.4	217.0	330.4	1.6	356.0	25.4	n.a.	330.6	1.637
1970	25.4	115.9	234.3	350.2	1.2	376.8	22.0	n.a.	354.8	1.741
1971	22.0	97.8	240.2	338.0	1.2	361.1	23.2	n.a.	337.9	1.634
1972	23.2	114.5	269.2	383.7	1.4	408.3	34.4	n.a.	373.9	1.786
1973	34.4	127.2	298.4	425.6	1.8	461.8	41.5	n.a.	420.3	1.989
1974	41.5	103.1	276.2	379.3	1.5	422.2	33.3	n.a.	388.9	1.823
1975	33.3	91.2	295.6	386.8	0.4	420.5	35.3	n.a.	385.2	1.788
1976	35.3	94.2	344.3	438.5	0.6	474.3	31.0	n.a	443.3	2.038
1977	31.0	87.2	355.4	442.7	0.6	474.3	30.5	n.a.	443.8	2.019
1978	30.5	94.7	389.4	484.1	1.4	516.0	37.1	1.1	477.8	2.151
1979	37.1	96.0	396.1	492.1	2.4	531.6	41.7	.9	489.1	2.178
1980	41.7	88.4	344.2	432.7	1.4	475.8	32.0	1.0	442.9	1.950
1981 (1)	32.0	92.0	313.5	405.4	1.8	439.2	34.5	2.5	402.2	1.754

(1) Preliminary.
n.a. Not available.

TABLE A 2.--SUPPLY AND USE OF FISH STICKS AND PORTIONS, MONTHLY, 1980-82
(PRODUCT WEIGHT)

MONTH	SUPPLY						USE	
	BEGINNING STOCKS	PRODUCTION			IMPORTS	TOTAL	ENDING STOCKS	APPARENT CONSUMPTION
		STICKS	PORTIONS	TOTAL				
	MILLION POUNDS							
1980								
JANUARY	41.7	8.3	31.2	39.4	0.1	81.2	40.1	41.1
FEBRUARY	40.1	9.4	34.4	43.8	0.1	84.0	36.1	47.9
MARCH	36.1	10.1	35.3	45.4	0.2	81.7	36.8	44.9
1ST QTR	41.7	27.7	100.9	128.6	0.4	170.7	36.8	133.9
APRIL	36.8	6.9	28.8	35.7	0.1	72.6	38.2	34.4
MAY	38.2	5.2	25.3	30.4	0.1	68.8	46.2	22.5
JUNE	46.2	8.1	26.5	34.6	0.1	81.0	43.6	37.4
2ND QTR	36.8	20.2	80.6	100.7	0.3	137.9	43.6	94.3
JULY	43.6	4.1	18.8	22.9	0.1	66.6	40.4	26.2
AUGUST	40.4	5.9	25.1	31.0	0.1	71.6	35.9	35.7
SEPTEMBER	35.9	7.7	30.7	38.4	0.1	74.5	28.7	45.9
3RD QTR	43.6	17.7	74.7	92.4	0.3	136.3	28.7	107.7
OCTOBER	28.7	8.1	31.6	39.7	0.1	68.5	33.2	35.3
NOVEMBER	33.2	7.0	27.9	34.9	0.1	68.2	32.3	35.9
DECEMBER	32.3	7.7	28.6	36.3	0.1	68.8	32.0	36.8
4TH QTR	28.7	22.8	88.1	111.0	0.4	140.0	32.0	108.0
YEAR	41.7	88.4	344.3	432.7	1.4	475.8	32.0	443.9
1981								
JANUARY	32.0	6.9	22.6	29.6	0.1	61.6	32.9	28.7
FEBRUARY	32.9	8.9	28.1	37.0	0.3	70.2	31.3	38.9
MARCH	31.3	11.7	34.5	46.1	0.2	77.6	28.0	49.7
1ST QTR	32.0	27.5	85.2	112.7	0.6	145.3	28.0	117.3
APRIL	28.0	8.6	29.4	38.0	0.2	66.2	29.2	37.0
MAY	29.2	5.6	25.2	30.8	0.1	60.1	35.4	24.8
JUNE	35.4	9.0	27.2	36.1	0.1	71.6	37.6	34.0
2ND QTR	28.0	23.2	81.8	105.0	0.4	133.3	37.6	95.7
JULY	37.6	3.3	17.5	20.8	0.1	58.5	34.3	24.2
AUGUST	34.3	8.9	25.6	34.5	0.2	69.0	32.7	36.3
SEPTEMBER	32.7	8.3	29.4	37.7	0.1	70.6	31.9	38.7
3RD QTR	37.6	20.5	72.5	93.0	0.4	131.1	31.9	99.2
OCTOBER	31.9	7.2	26.4	33.6	0.1	65.5	31.8	33.7
NOVEMBER	31.8	7.2	23.2	30.5	0.2	62.4	33.6	28.9
DECEMBER	33.6	6.4	24.4	30.8	0.1	64.4	34.5	29.9
4TH QTR	31.9	20.8	74.0	94.8	0.4	127.1	34.5	92.6
YEAR	32.0	92.0	313.5	405.5	1.8	439.2	34.5	404.7
1982								
JANUARY	34.5	6.1	23.1	29.1	0.1	63.7	34.0	29.7
FEBRUARY	34.0	9.1	24.6	33.7	0.2	67.9	30.1	37.8
MARCH	30.1	11.1	36.0	47.1	0.2	77.5	27.0	50.4
1ST QTR	34.5	26.3	83.7	110.0	0.5	144.9	27.0	117.9
APRIL	27.0				0.1		26.5	
MAY	26.5				0.2		30.8	
JUNE	30.8				0.1		33.1	
2ND QTR	27.0				0.4		33.1	
JULY	33.1							
AUGUST								
SEPTEMBER								
3RD QTR								
OCTOBER								
NOVEMBER								
DECEMBER								
4TH QTR								
YEAR								

(1) LESS THAN 50,000 POUNDS.

SOURCES: STOCKS: FROZEN FISHERY PRODUCTS, NATIONAL MARINE FISHERIES SERVICE.
PRODUCTION: FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, NATIONAL MARINE FISHERIES SERVICE.
IMPORTS: DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS.

NOTE: DATA ARE PRELIMINARY. FIGURES MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING.

TABLE A 3.--WHOLESALE PRICES FOR FISH STICKS AND PORTIONS, MONTHLY, 1980-82

MONTH	STICKS, COOKED BREADED				PORTIONS, RAW BREADED			
	COD	HADDOCK	POLLOCK	WHITING	COD	HADDOCK	POLLOCK	WHITING
	CENTS PER POUND							
1980								
JANUARY	124.0	136.9	99.5	99.5	121.8	138.4	91.6	90.5
FEBRUARY	126.0	136.5	95.5	99.5	122.5	138.0	92.0	94.5
MARCH	126.3	138.3	97.5	101.8	121.6	139.1	92.6	95.5
APRIL	127.0	143.5	102.5	108.5	119.0	142.0	92.5	97.0
MAY	126.5	143.5	100.9	108.5	120.0	142.4	93.3	97.3
JUNE	125.0	143.5	96.0	108.5	123.5	143.5	92.5	98.0
JULY	125.8	143.5	97.2	104.1	122.1	142.3	92.1	95.2
AUGUST	126.0	143.5	97.5	103.1	121.5	142.0	92.0	94.5
SEPTEMBER	126.0	143.5	97.9	103.5	121.5	142.0	92.0	94.5
OCTOBER	126.0	143.5	99.0	103.5	122.5	142.5	93.5	96.5
NOVEMBER	126.0	143.5	100.9	103.5	124.4	142.5	95.8	96.9
DECEMBER	131.5	141.5	105.5	103.5	131.0	139.0	102.0	96.0
AVERAGE	126.3	141.8	99.2	104.0	122.6	141.1	93.5	95.5
1981								
JANUARY	147.1	154.5	119.0	112.5	134.5	138.0	101.5	100.4
FEBRUARY	143.8	147.5	119.8	112.5	134.0	136.8	103.1	101.3
MARCH	140.5	140.5	122.0	112.5	133.5	135.5	105.5	102.0
APRIL	140.5	140.5	121.3	114.5	133.5	135.0	110.1	103.9
MAY	140.5	140.5	120.5	114.5	133.5	135.0	110.0	104.0
JUNE	140.3	140.5	120.3	114.5	133.5	133.8	109.5	102.8
JULY	139.5	140.5	119.5	114.5	133.5	132.5	108.0	100.0
AUGUST	139.0	139.3	115.5	111.3	132.0	132.5	106.8	99.5
SEPTEMBER	136.2	136.8	111.5	107.9	128.0	128.9	106.1	99.4
OCTOBER	132.0	135.0	111.5	107.5	121.5	120.5	107.0	100.0
NOVEMBER	132.4	135.4	111.5	107.5	125.3	125.0	107.0	100.0
DECEMBER	134.1	135.5	111.5	108.0	126.5	126.5	107.0	100.0
AVERAGE	138.8	140.5	117.0	111.5	130.8	131.7	106.8	101.1
1982								
JANUARY	137.5	138.5	119.5	120.5	128.0	129.5	107.0	102.5
FEBRUARY	137.5	138.5	119.5	120.5	128.0	129.5	107.0	102.5
MARCH	137.0	138.5	119.5	109.5	128.0	129.5	107.0	102.5
APRIL	139.5	141.0	119.5	110.5	129.0	131.0	107.0	99.5
MAY	140.0	139.5	119.5	110.5	129.8	131.0	107.0	99.5
JUNE	140.0	142.5	118.0	110.5	130.5	137.0	107.5	103.0
JULY	140.0	142.5	118.0	110.5	130.5	137.0	107.5	103.0
AUGUST								
SEPTEMBER								
OCTOBER								
NOVEMBER								
DECEMBER								
AVERAGE								

(1) INSUFFICIENT QUOTES.

NOTE: PRICES TO PRIMARY WHOLESALERS AS QUOTED BY PRODUCERS AT BOSTON, GLOUCESTER, AND NEW BEDFORD.
SOURCE: FISHERY MARKET NEWS REPORT, BOSTON -- NATIONAL MARINE FISHERIES SERVICE.

Table A4.--Supply and use of frozen fish blocks, 1960-81

(Product weight)

Year	Supply				Use	
	Beginning stocks	U.S. freezings	Imports	Total	Ending stocks	Disappearance
	Million pounds					
1960	23.2	0.8	89.7	113.7	24.8	88.9
1961	24.8	1.2	118.6	144.6	17.7	126.9
1962	17.7	1.6	143.5	162.8	24.3	138.5
1963	24.3	2.0	153.3	179.6	25.8	153.8
1964	25.8	2.0	166.2	194.0	20.0	174.0
1965	20.0	2.9	214.8	237.7	37.4	200.3
1966	37.4	6.0	206.5	249.9	35.2	214.7
1967	35.2	6.2	189.5	230.9	32.3	198.6
1968	32.3	3.6	261.1	297.0	44.4	252.6
1969	44.4	2.0	266.7	313.0	43.0	270.0
1970	43.0	4.4	272.7	320.1	30.6	289.5
1971	30.6	6.5	311.2	348.3	62.7	285.6
1972	62.7	3.1	355.5	421.3	75.8	345.5
1973	75.8	6.1	358.7	440.6	80.6	360.0
1974	80.6	2.4	266.1	349.1	75.7	273.4
1975	75.7	2.2	313.5	391.4	79.0	312.4
1976	79.0	2.7	378.7	460.4	61.1	399.3
1977	61.1	4.6	385.1	450.8	73.2	377.6
1978	73.2	2.1	406.3	481.6	71.9	409.7
1979	71.9	0.8	408.2	480.9	62.5	418.4
1980 (1)	62.5	1.1	336.8	400.3	46.7	353.6
1981 (1)	46.7	1.4	344.1	392.3	43.8	348.5

(1) Preliminary.

TABLE A 5.--SUPPLY AND USE OF FROZEN FISH BLOCKS, MONTHLY, 1980-82
(PRODUCT WEIGHT)

MONTH	SUPPLY				USE	
	BEGINNING STOCKS	PRODUCTION	IMPORTS	TOTAL	ENDING STOCKS	APPARENT CONSUMPTION
	MILLION POUNDS					
1980						
JANUARY	62.5	0.1	26.2	88.7	53.9	34.8
FEBRUARY	53.9	0.1	19.9	74.0	44.3	29.6
MARCH	44.3	0.1	39.7	84.1	42.9	41.3
1ST QTR	62.5	0.3	85.8	148.6	42.9	105.7
APRIL	42.9	0.2	27.5	70.5	41.6	29.0
MAY	41.6	0.1	32.2	73.9	44.9	28.9
JUNE	44.9	(1)	32.8	77.8	42.7	35.1
2ND QTR	42.9	0.3	92.5	135.7	42.7	93.0
JULY	42.7	0.2	33.4	76.3	57.8	18.5
AUGUST	57.8	0.1	27.8	85.7	62.7	23.0
SEPTEMBER	62.7	0.1	30.2	92.9	57.6	35.3
3RD QTR	42.7	0.3	91.4	134.4	57.6	76.8
OCTOBER	57.6	0.1	24.1	81.8	50.4	31.5
NOVEMBER	50.4	0.1	25.0	75.5	46.2	29.3
DECEMBER	46.2	(1)	18.0	64.2	46.7	17.4
4TH QTR	57.6	0.2	67.1	124.9	46.7	78.2
YEAR	62.5	1.1	336.8	400.3	46.7	353.6
1981						
JANUARY	46.7	(1)	32.5	79.3	42.8	36.5
FEBRUARY	42.8	0.1	28.2	71.1	40.5	30.6
MARCH	40.5	0.1	35.4	76.0	41.7	34.4
1ST QTR	46.7	0.3	96.1	143.1	41.7	101.4
APRIL	41.7	0.1	28.4	70.1	37.5	32.6
MAY	37.5	0.2	33.2	70.9	37.8	33.1
JUNE	37.8	0.0	39.6	77.5	46.9	30.6
2ND QTR	41.7	0.3	101.2	143.2	46.9	96.3
JULY	46.9	(1)	26.7	73.6	56.0	17.6
AUGUST	56.0	(1)	21.9	78.0	49.0	29.0
SEPTEMBER	49.0	0.1	22.2	71.2	45.3	25.9
3RD QTR	46.9	0.1	70.8	117.8	45.3	72.5
OCTOBER	45.3	(1)	30.5	75.9	41.3	34.6
NOVEMBER	41.3	(1)	18.8	60.2	41.0	19.1
DECEMBER	41.0	0.0	26.6	67.6	43.8	23.8
4TH QTR	45.3	0.1	76.0	121.4	43.8	77.6
YEAR	46.7	0.7	344.1	391.6	43.8	347.8
1982						
JANUARY	43.8	(1)	22.7	66.5	36.5	30.0
FEBRUARY	36.5	(1)	16.9	53.4	34.2	19.2
MARCH	34.2	(1)	28.1	62.3	36.8	25.5
1ST QTR	43.8	0.1	67.7	111.5	36.8	74.7
APRIL	36.8	(1)	30.0	66.9	30.3	36.6
MAY	30.3	(1)	27.9	58.2	35.3	22.9
JUNE	35.3	(1)	29.6	65.0	41.7	23.3
2ND QTR	36.8	(1)	87.5	124.4	41.7	82.7
JULY	41.7					
AUGUST						
SEPTEMBER						
3RD QTR						
OCTOBER						
NOVEMBER						
DECEMBER						
4TH QTR						
YEAR						

(1) LESS THAN 50,000 POUNDS.

SOURCES: STOCKS: FROZEN FISHERY PRODUCTS, NATIONAL MARINE FISHERIES SERVICE.
PRODUCTION: FROZEN FISHERY PRODUCTS, NATIONAL MARINE FISHERIES SERVICE.
IMPORTS: DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS.

NOTE: DATA ARE PRELIMINARY. FIGURES MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING.

TABLE A 6.--WHOLESALE PRICES FOR FROZEN FISH BLOCKS, MONTHLY, 1980-82

MONTH	COD	MINCED COD	FLOUNDER	HADDOCK	POLLOCK	ALASKA POLLOCK	WHITING
	CENTS PER POUND						
1980							
JANUARY	105.0	54.0	140.0	125.0	69.8	67.0	76.2
FEBRUARY	105.0	53.0	137.5	125.0	69.0	67.0	77.0
MARCH	105.0	53.8	137.5	130.6	69.0	67.5	77.8
APRIL	105.0	54.0	137.5	131.9	69.0	66.5	78.0
MAY	105.0	54.0	136.3	130.8	69.0	66.5	77.8
JUNE	105.0	52.4	133.5	128.8	69.0	66.5	76.1
JULY	105.0	49.8	129.5	127.2	68.9	68.0	72.6
AUGUST	105.0	49.0	125.6	125.3	68.5	68.0	71.8
SEPTEMBER	105.0	49.5	125.0	124.6	68.5	68.1	69.0
OCTOBER	105.0	50.0	125.0	122.8	68.6	69.0	70.0
NOVEMBER	106.9	50.0	117.4	115.5	70.8	70.2	71.0
DECEMBER	110.2	52.0	115.0	113.5	73.8	72.0	71.8
AVERAGE	105.6	51.8	130.0	125.1	69.5	68.0	74.1
1981							
JANUARY	112.8	54.0	114.3	113.5	78.6	(1)	74.6
FEBRUARY	115.0	54.0	113.5	113.5	83.0	(1)	75.8
MARCH	116.0	54.0	113.5	113.5	85.5	85.3	76.0
APRIL	116.0	54.0	113.5	108.2	85.2	85.0	76.0
MAY	115.5	54.0	112.1	101.9	84.3	84.1	76.0
JUNE	111.0	53.7	110.5	100.0	84.0	83.5	75.3
JULY	107.2	52.7	110.0	98.5	84.0	81.2	74.1
AUGUST	102.3	48.5	100.6	95.0	81.0	79.1	73.0
SEPTEMBER	100.0	47.1	94.7	95.0	80.0	77.4	72.6
OCTOBER	100.0	46.5	91.5	95.0	80.0	76.5	73.0
NOVEMBER	107.3	47.3	93.1	96.5	78.8	76.5	72.5
DECEMBER	108.0	47.7	91.5	97.5	78.0	76.5	72.9
AVERAGE	109.2	51.1	104.9	102.3	81.9	80.5	74.3
1982							
JANUARY	109.0	48.9	92.0	101.2	77.3	76.5	73.0
FEBRUARY	110.0	50.7	94.4	102.5	77.0	76.5	73.0
MARCH	110.0	52.9	104.0	102.5	77.0	76.2	72.2
APRIL	110.0	53.5	110.0	106.5	77.0	76.0	69.3
MAY	110.0	53.5	111.2	106.5	77.0	74.9	66.8
JUNE	109.8	53.1	118.5	107.8	76.0	73.3	65.0
JULY	108.0	50.3	120.0	109.0	76.0	71.5	60.3
AUGUST							
SEPTEMBER							
OCTOBER							
NOVEMBER							
DECEMBER							
AVERAGE							

(1) INSUFFICIENT QUOTES.

NOTE: PRICES TO PROCESSORS AS QUOTED BY PRODUCERS, IMPORTERS, AND BROKERS AT BOSTON, GLOUCESTER, AND NEW BEDFORD.
SOURCE: FISHERY MARKET NEWS REPORT, BOSTON -- NATIONAL MARINE FISHERIES SERVICE.

Table A7.--U.S. imports of fish blocks, by species and country of origin, January-June, 1981 and 1982

Country	Cod		Haddock		Pollock		Whiting		Other		Total	
	1981	1982	1981	1982	1981	1982	1981	1982	1981	1982	1981	1982
	Million pounds											
Canada	39.0	25.0	6.6	0.7	1.3	1.8	0.7	0.1	16.9	8.8	64.5	36.3
Iceland	16.9	11.1	5.0	7.1	3.9	3.8	-	-	3.3	3.6	29.2	25.6
Rep. of Korea	3.5	2.6	-	-	18.7	17.9	0.8	1.8	0.5	0.1	23.6	22.4
Denmark	13.9	15.6	2.4	0.7	0.5	1.2	0.2	0.1	0.5	2.9	17.5	20.4
Norway	5.9	4.2	9.1	6.9	1.1	0.8	-	-	0.5	0.4	16.6	12.3
Poland	1.6	1.0	-	-	8.6	9.4	-	-	(1)	-	10.2	10.5
Argentina	-	-	-	-	(1)	-	5.7	6.9	0.1	1.0	5.9	7.9
Greenland	6.3	6.9	-	-	-	-	-	-	1.3	0.4	7.6	7.3
Uruguay	-	-	-	-	-	-	4.6	4.5	1.1	1.0	5.6	5.5
Japan	2.7	0.8	-	-	1.1	0.8	0.2	0.1	0.9	1.7	4.9	3.4
Other	0.9	1.1	0.2	0.3	7.2	(1)	2.5	1.1	0.9	1.0	11.6	3.5
Total	90.7	68.4	23.4	15.7	42.5	35.7	14.7	14.6	26.1	20.8	197.3	155.2

(1) Less than 50,000 pounds.
Note: Figures may not add to total because of rounding.
Source: U.S. Department of Commerce, Bureau of the Census.

Table A8.--U.S. imports of groundfish fillets, by species and country of origin, January-June 1981 and 1982

Country	Cod		Flounder		Turbot		Cusk, haddock, hake and pollock		Ocean perch		Total	
	1981	1982	1981	1982	1981	1982	1981	1982	1981	1982	1981	1982
	Million pounds											
Canada	41.9	43.7	24.3	6.4	4.1	.8	14.2	9.3	14.9	10.1	99.4	70.3
Iceland	35.0	25.6	(1)	.1	.4	.5	6.0	10.0	7.2	9.4	48.5	45.7
Japan	1.8	4.5	2.9	2.6	4.5	3.8	1.0	1.3	-	(1)	10.1	12.2
Norway	2.7	3.4	-	-	(1)	.1	1.6	2.2	(1)	(1)	4.3	5.7
Denmark	2.0	5.2	.2	(1)	-	(1)	1.7	4.3	-	(1)	3.9	9.5
Rep. of Korea	.4	.5	.2	(1)	(1)	-	.3	.7	-	-	.8	1.3
Other	1.6	1.3	.9	.8	(1)	.3	.1	.2	.3	(1)	2.8	2.6
Total	85.2	84.2	28.4	9.9	9.1	5.5	24.8	28.1	22.3	19.6	169.9	147.4

(1) Less than 50,000 pounds.
Note: Figures may not add to total because of rounding.

Table A9.--Supply and use of fresh and frozen cod, 1960-81

(Fillet weight)

Year	Supply						Use		
	Beginning stocks	Landings			Imports	Total	Ending stocks	Apparent consumption	
		Atlantic	Pacific	Total				Total	Per capita
	Million pounds								Pounds
1960	14.4	13.1	1.6	14.7	29.6	58.7	7.8	50.9	0.283
1961	7.8	15.1	0.9	16.0	32.2	56.0	7.1	48.9	.268
1962	7.1	15.2	1.0	16.2	33.0	56.3	9.7	46.6	.250
1963	9.7	13.7	1.9	15.6	32.7	58.0	8.9	49.1	.260
1964	8.9	12.6	1.9	14.5	33.5	56.9	6.2	50.7	.265
1965	6.2	11.8	3.0	14.8	33.7	54.7	5.7	49.0	.253
1966	5.7	12.2	3.0	15.2	40.8	61.7	12.7	49.0	.250
1967	12.7	14.0	2.7	16.7	32.1	61.5	6.5	55.0	.278
1968	6.5	15.2	2.4	17.6	46.6	70.7	7.6	63.1	.317
1969	7.6	17.5	2.0	19.5	61.9	89.0	12.9	76.1	.377
1970	12.9	16.0	1.0	17.0	95.8	125.7	7.4	118.3	.580
1971	7.4	17.4	1.9	19.3	80.7	107.4	6.1	101.3	.490
1972	6.1	14.9	3.4	18.3	99.0	123.4	16.2	107.2	.512
1973	16.2	16.0	3.0	19.0	83.0	118.2	12.7	105.5	.499
1974	12.7	18.8	2.9	21.7	71.6	106.0	17.8	88.2	.413
1975	17.8	17.9	3.8	21.7	91.0	130.5	21.7	108.8	.505
1976	21.7	18.1	3.9	22.0	118.6	162.3	16.2	146.1	.672
1977	16.2	24.5	3.6	28.1	122.3	166.6	27.2	139.4	.634
1978	27.2	28.2	3.5	31.7	135.0	193.9	21.7	172.2	.775
1979	21.7	32.3	4.0	36.3	144.7	202.7	24.0	178.7	.796
1980 (1)	24.0	38.4	6.4	44.8	131.4	200.2	19.7	180.6	.795
1981 (1)	19.7	32.7	14.2	46.8	150.2	216.7	16.9	199.8	.871

(1) Preliminary.

Note: Annual data differs from monthly because it includes landings from other areas that are not available monthly or not available on a timely basis.

TABLE A10.--SUPPLY AND USE OF FRESH AND FROZEN COD, MONTHLY, 1980-82
(FILLET WEIGHT)

MONTH	SUPPLY				USE	
	BEGINNING STOCKS	LANDINGS	IMPORTS	TOTAL	ENDING STOCKS	APPARENT CONSUMPTION
	MILLION POUNDS					
1980						
JANUARY	24.0	1.9	12.4	38.3	25.2	13.1
FEBRUARY	25.2	2.4	7.5	35.1	20.4	14.8
MARCH	20.4	2.2	14.8	37.4	21.3	16.1
1ST QTR	24.0	6.6	34.7	65.3	21.3	43.9
APRIL	21.3	3.7	10.9	35.9	23.8	12.1
MAY	23.8	4.9	13.5	42.3	24.9	17.4
JUNE	24.9	4.3	13.6	42.8	26.1	16.7
2ND QTR	21.3	13.0	38.0	72.3	26.1	46.2
JULY	26.1	4.0	12.2	42.3	25.8	16.5
AUGUST	25.8	3.2	8.4	37.4	28.7	8.8
SEPTEMBER	28.7	3.4	10.8	42.9	26.0	16.9
3RD QTR	26.1	10.7	31.4	68.2	26.0	42.2
OCTOBER	26.0	3.0	12.0	41.0	20.7	20.3
NOVEMBER	20.7	1.9	7.6	30.2	20.1	10.1
DECEMBER	20.1	1.6	7.7	29.4	19.7	9.7
4TH QTR	26.0	6.4	27.3	59.8	19.7	40.1
YEAR	24.0	36.7	131.4	192.1	19.7	172.4
1981						
JANUARY	19.7	1.5	9.4	30.6	20.9	9.7
FEBRUARY	20.9	2.7	14.5	38.1	20.3	17.8
MARCH	20.3	2.5	21.4	44.2	23.3	20.8
1ST QTR	19.7	6.7	45.3	71.6	23.3	48.3
APRIL	23.3	2.9	7.0	33.3	17.5	15.8
MAY	17.5	4.3	19.1	40.9	17.5	23.4
JUNE	17.5	4.0	13.9	35.4	18.5	16.9
2ND QTR	23.3	11.2	40.0	74.5	18.5	56.0
JULY	18.5	3.3	12.3	34.1	21.2	12.9
AUGUST	21.2	2.6	11.6	35.4	21.4	14.0
SEPTEMBER	21.4	2.1	13.2	36.7	20.4	16.3
3RD QTR	18.5	8.1	37.0	63.6	20.4	43.2
OCTOBER	20.4		11.6		19.0	
NOVEMBER	19.0		4.9		15.0	
DECEMBER	15.0		11.5		16.9	
4TH QTR	20.4		28.0		16.9	
YEAR	19.7		150.2		16.9	
1982						
JANUARY	16.9		8.2		14.4	
FEBRUARY	14.4		7.9		13.0	
MARCH	13.0		16.8		13.8	
1ST QTR	16.9		32.9		13.8	
APRIL	13.8		18.2		19.2	
MAY	19.2		16.6		20.2	
JUNE	20.2		16.5		24.8	
2ND QTR	13.8		51.3		24.8	
JULY	24.8					
AUGUST						
SEPTEMBER						
3RD QTR						
OCTOBER						
NOVEMBER						
DECEMBER						
4TH QTR						
YEAR						

SOURCES: STOCKS: FROZEN FISHERY PRODUCTS, NATIONAL MARINE FISHERIES SERVICE.
LANDINGS: NMFS, FOR MAINE THROUGH VIRGINIA, EXCLUDING NEW HAMPSHIRE, CONNECTICUT, AND DELAWARE.
IMPORTS: DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS.

NOTE: DATA ARE PRELIMINARY. FIGURES MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING.

TABLE A11.--EXVESSEL, WHOLESALE, AND RETAIL PRICES OF COD, MONTHLY, 1978-82

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVERAGE
	- CENTS PER POUND -												
EXVESSEL PRICE, AT MAJOR NEW ENGLAND PORTS (1)													
1978	30.1	23.4	35.6	21.1	17.6	16.8	27.1	27.5	29.5	24.0	27.9	43.3	25.1
1979	39.5	55.4	33.5	27.8	21.4	21.5	26.9	28.3	30.5	35.2	29.1	47.2	30.3
1980	45.1	34.4	37.5	22.6	18.5	20.9	24.0	27.5	25.9	32.4	38.0	42.3	28.4
1981	46.8	33.3	41.9	38.2	22.8	27.9	31.2	39.5					
1982													
WHOLESALE PRICE, FROZEN FILLETS (CANADIAN, 5-LB. PACKAGE) (2)													
1978	95.0	95.0	95.0	91.8	90.0	90.0	89.5	88.4	88.0	88.0	88.0	87.5	90.5
1979	87.4	93.5	97.5	100.4	96.0	89.5	83.0	80.3	80.3	84.5	85.0	85.0	88.5
1980	85.0	86.5	88.3	86.0	82.3	81.0	81.0	82.3	92.5	100.0	100.0	108.3	89.4
1981	117.5	117.5	117.5	115.5	115.0	106.6	100.5	97.5	98.0	101.3	103.8	105.0	108.0
1982	108.8	112.1	115.0	112.0	108.3	101.8	96.6						
WHOLESALE PRICE, FROZEN FILLETS (ICELANDIC, 5-LB. BONELESS) (3)													
1978	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
1979	145.0	145.0	145.0	145.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	155.0
1980	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0
1981	160.0	160.0	160.0	160.0	167.5	180.0	180.0	180.0	180.0	180.0	180.0	180.0	172.3
1982	180.0	180.0	180.0	180.0	180.0	180.0	180.0						
WHOLESALE PRICE, FRESH FILLETS, AT NEW YORK CITY (4)													
1978	192.5	167.5	183.0	161.9	145.0	143.8	178.8	183.0	180.6	168.8	182.0	243.8	177.5
1979	217.5	256.3	185.0	189.4	155.5	153.1	171.3	177.0	179.4	190.0	178.8	230.6	190.3
1980	230.0	206.9	223.8	177.0	152.5	166.9	170.0	186.9	172.5	185.0	211.3	224.5	192.3
1981	283.1	214.4	234.4	224.5	180.0	185.0	190.5	218.8	235.0	228.8	213.8	218.5	218.9
1982	294.2	244.4	233.0	279.4	173.1	184.5	183.8						
RETAIL PRICE, FROZEN FILLETS (5)													
1978	171.0	173.0	182.0	182.0	184.0	183.0	180.0	184.0	186.0	188.0	187.0	190.0	182.5
1979	186.0	193.0	194.0	193.0	195.0	203.0	195.0	202.0	198.0	203.0	211.0	207.0	198.3
1980	219.0	203.0	199.0	197.0	198.0	199.0	198.0	206.0	204.0	203.0	204.0	210.0	203.3
1981	208.0	206.0	220.0	220.0	215.0	218.0	222.0	223.0	216.0	218.0	222.0	228.0	218.0
1982	221.0	222.0	221.0	222.0	229.0	212.0	207.0						
RETAIL PRICE, FRESH FILLETS, AT NEW YORK CITY (6)													
1978	255.3	279.0	278.9	289.0	289.0	295.3	294.0	297.0	301.5	297.8	292.8	300.7	289.2
1979	295.0	325.3	330.3	329.0	296.5	296.5	292.8	292.8	292.8	305.0	304.0	300.7	305.0
1980	329.0	342.0	352.0	340.5	337.8	337.0	319.5	330.8	337.0	332.0	327.5	355.0	336.7
1981	393.8	409.5	410.4	382.3	399.5	381.2	376.5	376.5	374.0	389.0			
1982													

(1) SOURCE: PRODUCTION AND VALUE OF FISHERIES AT MAJOR NEW ENGLAND PORTS; ANNUAL AVERAGES ARE WEIGHTED.
(2) SOURCE: FISHERY MARKET NEWS REPORT, BOSTON -- RESOURCE STATISTICS DIVISION, NMFS.
(3) SOURCE: FISHERY MARKET NEWS REPORT, BOSTON -- RESOURCE STATISTICS DIVISION, NMFS.
(4) SOURCE: FISHERY MARKET NEWS REPORT, NEW YORK -- RESOURCE STATISTICS DIVISION, NMFS; AVERAGE MONTHLY PRICE FOR DOMESTIC FILLETS AT NEW YORK CITY FULTON MARKET.
(5) SOURCE: OPERATION PRICE WATCH -- FISHERIES DEVELOPMENT DIVISION, NMFS.
(6) SOURCE: RETAIL PRICE REPORT, NEW YORK MARKET INFORMATION SERVICE; AVERAGE MONTHLY PRICE FOR DOMESTIC FILLETS.

Table A12.--Supply and use of fresh and frozen flatfish, 1960-81

(Fillet weight)

Year	Supply				Use		
	Beginning stocks	U.S. Landings	Imports	Total	Ending stocks	Apparent consumption	
						Total	Per capita
	Million pounds						Pounds
1960	5.7	43.3	18.7	67.7	7.5	60.2	0.335
1961	7.5	45.4	18.4	71.3	6.1	65.2	.356
1962	6.1	53.0	18.4	77.5	6.2	71.3	.383
1963	6.2	60.3	16.6	83.1	8.0	75.1	.398
1964	8.0	60.1	21.6	89.7	9.0	80.7	.422
1965	9.0	61.3	24.1	94.4	6.6	87.8	.453
1966	6.6	59.5	34.7	100.8	10.2	90.6	.463
1967	10.2	52.1	33.3	95.6	10.7	84.9	.426
1968	10.7	53.1	39.5	103.3	7.8	95.5	.429
1969	7.8	58.4	48.1	114.3	9.3	105.0	.520
1970	9.3	60.7	58.9	128.9	16.1	112.8	.553
1971	16.1	56.1	56.3	128.5	9.3	119.2	.576
1972	9.3	60.9	88.2	158.4	11.2	147.2	.703
1973	11.2	58.5	105.9	175.4	25.4	150.2	.711
1974	25.4	56.1	77.5	159.0	22.4	136.6	.640
1975	22.4	56.3	98.3	177.0	12.7	164.3	.763
1976	12.7	56.2	100.9	169.8	17.7	152.1	.699
1977	17.7	55.9	95.9	169.5	18.9	150.6	.685
1978	18.9	61.6	94.3	174.8	23.8	151.0	.680
1979	23.8	71.4	81.2	176.4	21.8	154.6	.688
1980(1)	21.8	74.0	71.6	167.3	15.9	151.5	.667
1981(1)	15.9	68.6	83.8	168.3	20.6	147.7	.644

(1) Preliminary.

Note: Data reported is for both flounder and Greenland turbot. Prior to 1975 these two species were not separated and were reported as flatfish products. Annual data differs from monthly because it includes landings from other areas that are not available monthly or not available on a timely basis.

TABLE A13.--SUPPLY AND USE OF FRESH AND FROZEN FLOUNDER, MONTHLY, 1980-82
(FILLET WEIGHT)

MONTH	SUPPLY				USE	
	BEGINNING STOCKS	LANDINGS	IMPORTS	TOTAL	ENDING STOCKS	APPARENT CONSUMPTION
	MILLION POUNDS					
1980						
JANUARY	12.7	3.4	1.7	17.8	12.5	5.4
FEBRUARY	12.5	3.3	1.1	16.8	10.8	6.1
MARCH	10.8	3.0	2.6	16.4	10.0	6.4
1ST QTR	12.7	9.7	5.4	27.8	10.0	17.8
APRIL	10.0	4.1	2.7	16.8	7.8	9.0
MAY	7.8	5.2	2.0	14.9	6.9	8.0
JUNE	6.9	3.8	5.0	15.8	7.6	8.2
2ND QTR	10.0	13.1	9.7	32.8	7.6	25.2
JULY	7.6	3.7	5.8	17.1	10.0	7.1
AUGUST	10.0	4.0	3.3	17.3	10.0	7.2
SEPTEMBER	10.0	4.0	2.4	16.4	9.3	7.1
3RD QTR	7.6	11.7	11.5	30.7	9.3	21.4
OCTOBER	9.3	3.8	3.9	17.1	9.5	7.5
NOVEMBER	9.5	3.7	4.6	17.9	11.1	6.8
DECEMBER	11.1	3.3	1.5	15.9	12.5	3.4
4TH QTR	9.3	10.9	10.0	30.2	12.5	17.7
YEAR	12.7	45.4	36.5	94.6	12.5	82.1
1981						
JANUARY	12.5	3.1	9.2	24.8	15.0	9.8
FEBRUARY	15.0	2.7	1.7	19.3	11.9	7.4
MARCH	11.9	3.9	3.2	19.0	11.2	7.8
1ST QTR	12.5	9.7	14.1	36.3	11.2	25.1
APRIL	11.2	4.4	3.8	19.4	12.3	7.0
MAY	12.3	5.1	5.1	22.5	14.7	7.8
JUNE	14.7	4.0	5.5	24.2	18.6	5.7
2ND QTR	11.2	13.5	14.3	39.0	18.6	20.5
JULY	18.6	3.3	4.3	26.2	18.3	7.9
AUGUST	18.3	3.2	4.1	25.6	23.7	1.9
SEPTEMBER	23.7	3.3	4.9	31.8	26.0	5.9
3RD QTR	18.6	9.8	13.3	41.6	26.0	15.7
OCTOBER	26.0		5.6		18.8	
NOVEMBER	18.8		3.8		18.9	
DECEMBER	18.9		3.1		17.3	
4TH QTR	26.0		12.6		17.3	
YEAR	12.5		54.3		17.3	
1982						
JANUARY	17.3		1.1		14.6	
FEBRUARY	14.6		0.9		11.7	
MARCH	11.7		1.4		7.1	
1ST QTR	17.3		3.4		7.1	
APRIL	7.1		1.7		5.6	
MAY	5.6		2.2		5.2	
JUNE	5.2		2.7		6.1	
2ND QTR	7.1		6.6		6.1	
JULY	6.1					
AUGUST						
SEPTEMBER						
3RD QTR						
OCTOBER						
NOVEMBER						
DECEMBER						
4TH QTR						
YEAR						

SOURCES: STOCKS: FROZEN FISHERY PRODUCTS, NATIONAL MARINE FISHERIES SERVICE.
LANDINGS: NMFS, FOR MAINE THROUGH VIRGINIA, EXCLUDING NEW HAMPSHIRE, CONNECTICUT, AND DELAWARE.
IMPORTS: DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS.

NOTE: DATA ARE PRELIMINARY. FIGURES MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING.

TABLE A14.--EXVESSEL, WHOLESALE, AND RETAIL PRICES OF FLOUNDER, MONTHLY, 1978-82

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVERAGE
	CENTS PER POUND												
EXVESSEL PRICE, YELLOWTAIL FLOUNDER, AT MAJOR NEW ENGLAND PORTS (1)													
1978	68.4	60.4	74.4	51.0	49.0	49.7	63.5	54.1	78.1	76.0	52.8	60.6	61.1
1979	66.2	100.6	58.3	48.2	43.0	52.5	48.0	55.1	52.6	48.1	35.2	40.8	51.2
1980	52.1	55.6	74.6	38.9	36.1	36.7	41.7	45.5	36.4	47.3	50.9	49.3	47.4
1981	60.3	82.0	62.3	52.7	34.2	42.2	55.0	50.4					
1982													
WHOLESALE PRICE, FROZEN FILLETS (CANADIAN, 5-LB. PACKAGE) (2)													
1978	118.4	116.9	119.2	119.5	120.6	-	131.0	131.0	131.0	134.0	134.0	134.0	126.3
1979	137.0	140.4	143.4	144.5	144.5	148.0	149.0	149.4	154.3	155.5	155.5	155.5	148.1
1980	155.5	155.5	154.0	154.0	150.6	146.3	143.0	142.1	140.0	136.5	130.6	125.5	144.5
1981	123.8	122.5	117.5	117.5	117.5	119.4	120.0	120.0	115.0	115.0	115.0	115.0	118.2
1982	126.3	132.5	125.0	135.3	143.1	147.5	147.5						
RETAIL PRICE, FROZEN FILLETS (3)													
1978	214.0	204.0	218.0	216.0	220.0	218.0	220.0	226.0	231.0	230.0	228.0	227.0	221.0
1979	231.0	246.0	239.0	249.0	259.0	260.0	264.0	263.0	271.0	264.0	276.0	279.0	258.4
1980	278.0	281.0	282.0	286.0	276.0	287.0	287.0	283.0	290.0	289.0	284.0	290.0	284.4
1981	278.0	290.0	288.0	285.0	284.0	290.0	283.0	284.0	285.0	293.0	293.0	290.0	286.9
1982	294.0	278.0	287.0	292.0	289.0	285.0	288.0						
RETAIL PRICE, FRESH FILLETS, AT NEW YORK CITY (4)													
1978	363.4	392.8	390.0	399.0	382.0	367.3	397.3	393.3	416.6	415.3	410.5	431.0	396.5
1979	467.6	479.0	436.0	409.0	402.8	392.8	386.5	367.8	384.8	381.0	364.0	380.7	404.3
1980	391.5	380.3	395.3	419.8	372.8	403.8	404.5	417.0	415.8	420.8	412.5	402.3	403.0
1981	486.3	493.3	505.0	469.3	474.5	446.2	454.0	455.3	448.0	425.7			
1982													

(1) SOURCE: PRODUCTION AND VALUE OF FISHERIES AT MAJOR NEW ENGLAND PORTS. ANNUAL AVERAGES ARE WEIGHTED.
(2) SOURCE: FISHERY MARKET NEWS REPORT, BOSTON -- RESOURCE STATISTICS DIVISION, NMFS.
(3) SOURCE: OPERATION PRICE WATCH -- FISHERIES DEVELOPMENT DIVISION, NMFS.
(4) SOURCE: RETAIL PRICE WATCH REPORT, NEW YORK MARKET INFORMATION SERVICE; AVERAGE MONTHLY PRICE FOR DOMESTIC FILLETS.

TABLE A15.--SUPPLY AND USE OF TURBOT FILLETS, MONTHLY, 1980-82
(FILLET WEIGHT)

MONTH	SUPPLY				USE	
	BEGINNING STOCKS	LANDINGS	IMPORTS	TOTAL	ENDING STOCKS	APPARENT CONSUMPTION
	MILLION POUNDS					
1980						
JANUARY	9.1	0.0	1.5	10.6	7.1	3.4
FEBRUARY	7.1	0.0	1.6	8.7	4.7	4.0
MARCH	4.7	0.0	2.2	6.9	3.5	3.4
1ST QTR	9.1	0.0	5.2	14.3	3.5	10.8
APRIL	3.5	0.0	1.5	5.0	2.9	2.1
MAY	2.9	0.0	1.5	4.4	2.2	2.2
JUNE	2.2	0.0	2.5	4.7	2.0	2.7
2ND QTR	3.5	0.0	5.5	9.0	2.0	7.0
JULY	2.0	0.0	3.9	6.0	3.7	2.3
AUGUST	3.7	0.0	5.0	8.7	3.5	5.2
SEPTEMBER	3.5	0.0	4.0	7.5	4.0	3.5
3RD QTR	2.0	0.0	13.0	15.0	4.0	11.0
OCTOBER	4.0	0.0	5.8	9.8	4.7	5.2
NOVEMBER	4.7	0.0	4.2	8.8	5.1	3.8
DECEMBER	5.1	0.0	1.4	6.5	3.4	3.1
4TH QTR	4.0	0.0	11.4	15.4	3.4	12.0
YEAR	9.1	0.0	35.0	44.1	3.4	40.8
1981						
JANUARY	3.4	0.0	1.8	5.2	3.5	1.7
FEBRUARY	3.5	0.0	0.6	4.1	2.4	1.7
MARCH	2.4	0.0	0.8	3.2	2.0	1.1
1ST QTR	3.4	0.0	3.2	6.5	2.0	4.5
APRIL	2.0	0.0	1.2	3.3	2.1	1.1
MAY	2.1	0.0	2.1	4.3	1.8	2.4
JUNE	1.8	0.0	2.5	4.4	1.9	2.4
2ND QTR	2.0	0.0	5.9	7.9	1.9	6.0
JULY	1.9	0.0	4.6	6.6	2.3	4.2
AUGUST	2.3	0.0	5.7	8.0	2.4	5.6
SEPTEMBER	2.4	0.0	3.9	6.3	4.6	1.7
3RD QTR	1.9	0.0	14.2	16.1	4.6	11.5
OCTOBER	4.6	0.0	3.2	7.8	4.3	3.5
NOVEMBER	4.3	0.0	1.6	5.9	3.8	2.1
DECEMBER	3.8	0.0	1.5	5.3	3.3	2.0
4TH QTR	4.6	0.0	6.3	10.9	3.3	7.6
YEAR	3.4	0.0	29.6	32.9	3.3	29.6
1982						
JANUARY	3.3	0.0	1.2	4.6	2.5	2.1
FEBRUARY	2.5	0.0	0.2	2.7	1.9	0.9
MARCH	1.9	0.0	0.6	2.5	1.8	0.7
1ST QTR	3.3	0.0	2.1	5.4	1.8	3.6
APRIL	1.8	0.0	0.7	2.5	0.7	1.8
MAY	0.7	0.0	0.8	1.5	0.7	0.8
JUNE	0.7	0.0	1.8	2.5	2.3	0.2
2ND QTR	1.8	0.0	3.4	5.2	2.3	2.9
JULY	2.3	0.0				
AUGUST						
SEPTEMBER						
3RD QTR						
OCTOBER						
NOVEMBER						
DECEMBER						
4TH QTR						
YEAR						

SOURCES: STOCKS: FROZEN FISHERY PRODUCTS, NATIONAL MARINE FISHERIES SERVICE.
IMPORTS: DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS.

NOTE: DATA ARE PRELIMINARY. FIGURES MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING.

TABLE A16.--WHOLESALE AND RETAIL PRICES OF TURBOT, MONTHLY, 1978-82

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVERAGE
	- CENTS PER POUND -												
WHOLESALE PRICE, FROZEN FILLETS (CANADIAN, 5-LB. PACKAGE) (1)													
1978	92.8	92.0	96.5	94.3	94.9	95.9	97.0	96.2	94.9	96.0	95.6	95.5	95.1
1979	95.8	95.0	96.0	96.0	97.0	95.8	95.6	95.5	95.5	94.7	94.0	94.8	95.5
1980	95.8	96.0	94.0	93.8	92.8	91.8	92.6	92.3	93.4	95.0	93.6	94.8	93.8
1981	95.3	95.0	96.7	-	103.5	-	-	105.0	105.0	105.4	110.0	114.0	103.3
1982	117.9	-	132.8	-	131.0	133.8	135.0						
WHOLESALE PRICE, FROZEN FILLETS (JAPANESE, 25-LB. IQF) (2)													
1978	104.2	105.8	104.5	-	-	102.8	103.5	101.8	100.6	98.3	97.0	96.8	101.5
1979	96.5	98.4	101.5	103.0	103.0	103.0	103.0	103.0	103.8	102.0	102.0	100.0	101.6
1980	100.0	110.0	101.5	101.5	-	99.0	99.0	107.3	108.0	109.0	111.3	112.5	105.4
1981	112.5	120.6	123.5	123.5	123.5	120.5	123.5	123.0	122.5	125.0	128.1	129.5	123.0
1982	133.8	141.2	-	150.0	150.0	142.0	143.3						
RETAIL PRICE, FROZEN FILLETS (3)													
1978	148.0	150.0	154.0	160.0	160.0	159.0	154.0	157.0	162.0	162.0	160.0	157.0	156.9
1979	160.0	155.0	167.0	161.0	169.0	173.0	184.0	181.0	175.0	181.0	164.0	171.0	170.1
1980	170.0	169.0	174.0	175.0	181.0	181.0	180.0	175.0	176.0	175.0	182.0	188.0	177.2
1981	187.0	194.0	191.0	193.0	209.0	206.0	206.0	205.0	208.0	205.0	215.0	224.0	203.6
1982	207.0	218.0	215.0	223.0	225.0	230.0	220.0						

(1) SOURCE: FISHERY MARKET NEWS REPORT, BOSTON -- RESOURCE STATISTICS DIVISION, NMFS.
(2) SOURCE: FISHERY MARKET NEWS REPORT, BOSTON -- RESOURCE STATISTICS DIVISION, NMFS.
(3) SOURCE: OPERATION PRICE WATCH -- FISHERIES DEVELOPMENT DIVISION, NMFS.

Table A17.--Supply and use of fresh and frozen haddock, 1960-81

Year	Supply				Use		
	Beginning stocks	U.S. landings	Imports (1)	Total	Ending stocks	Apparent consumption	
						Total	Per capita
	Million pounds						Pounds
1960	10.2	41.7	18.2	70.1	8.1	62.0	0.345
1961	8.1	46.9	21.1	76.1	10.3	65.8	.354
1962	10.3	47.1	20.6	78.0	5.4	72.6	.386
1963	5.4	43.5	19.6	68.7	4.8	63.9	.327
1964	4.8	46.9	19.1	70.8	7.4	63.4	.334
1965	7.4	47.0	17.0	71.4	6.7	64.7	.334
1966	6.7	46.4	21.5	74.6	7.9	66.7	.340
1967	7.9	34.6	21.4	63.9	6.9	57.0	.288
1968	6.9	24.6	26.7	58.2	4.8	53.4	.267
1969	4.8	16.0	28.1	48.9	7.1	41.8	.206
1970	7.1	9.4	29.5	46.0	5.9	40.1	.197
1971	5.9	7.5	28.4	41.8	8.9	32.9	.159
1972	8.9	4.1	29.1	42.1	9.8	32.3	.154
1973	9.8	2.9	29.6	42.3	10.6	31.7	.150
1974	10.6	2.9	20.5	34.0	10.4	23.6	.111
1975	10.4	5.7	25.6	41.7	7.5	34.2	.159
1976	7.5	4.5	27.8	39.8	5.1	34.7	.159
1977	5.1	10.0	28.4	43.5	7.7	35.8	.163
1978	7.7	13.9	29.0	50.6	6.3	44.3	.199
1979	6.3	14.7	31.7	52.7	4.4	48.3	.215
1980(2)	4.4	19.4	29.0	52.7	7.7	45.0	.198
1981(2)	7.7	19.4	29.5	56.6	5.6	51.0	.222

(1) Haddock fillet imports estimated from the category that included haddock, cusk, hake, and pollock.
(2) Preliminary.
Note: Imports were revised starting in 1972, and this also changes total supply and consumption.

TABLE A18.--SUPPLY AND USE OF FRESH AND FROZEN HADDOCK, MONTHLY, 1980-82
(FILLET WEIGHT)

MONTH	SUPPLY				USE	
	BEGINNING STOCKS	LANDINGS	IMPORTS	TOTAL	ENDING STOCKS	APPARENT CONSUMPTION
	MILLION POUNDS					
1980						
JANUARY	4.4	1.0	1.9	7.3	5.1	2.2
FEBRUARY	5.1	1.3	2.1	8.5	3.6	4.9
MARCH	3.6	1.4	5.0	10.0	4.2	5.8
1ST QTR	4.4	3.7	9.1	17.1	4.2	12.9
APRIL	4.2	2.0	2.1	8.3	4.6	3.7
MAY	4.6	2.3	1.7	8.5	5.2	3.3
JUNE	5.2	1.5	2.9	9.6	5.5	4.1
2ND QTR	4.2	5.8	6.6	16.6	5.5	11.1
JULY	5.5	1.9	2.7	10.2	5.8	4.4
AUGUST	5.8	1.7	2.2	9.6	7.0	2.6
SEPTEMBER	7.0	2.0	2.5	11.5	6.7	4.8
3RD QTR	5.5	5.5	7.4	18.5	6.7	11.7
OCTOBER	6.7	1.4	1.9	10.1	7.4	2.7
NOVEMBER	7.4	1.1	1.7	10.2	8.3	1.9
DECEMBER	8.3	1.0	2.3	11.6	7.7	4.0
4TH QTR	6.7	3.5	6.0	16.2	7.7	8.5
YEAR	4.4	18.5	29.1	51.9	7.7	44.3
1981						
JANUARY	7.7	1.3	1.2	10.2	6.7	3.4
FEBRUARY	6.7	1.9	2.8	11.5	5.0	6.5
MARCH	5.0	1.3	4.3	10.7	5.3	5.3
1ST QTR	7.7	4.5	8.4	20.6	5.3	15.2
APRIL	5.3	1.5	1.7	8.5	5.2	3.3
MAY	5.2	2.2	3.0	10.4	6.1	4.3
JUNE	6.1	2.2	2.1	10.3	5.6	4.7
2ND QTR	5.3	5.9	6.7	18.0	5.6	12.3
JULY	5.6	1.8	2.2	9.7	5.8	3.9
AUGUST	5.8	1.7	1.9	9.4	5.3	4.1
SEPTEMBER	5.3	1.6	2.9	9.7	6.5	3.2
3RD QTR	5.6	5.1	7.0	17.7	6.5	11.2
OCTOBER	6.5		3.1		5.4	
NOVEMBER	5.4		1.4		5.9	
DECEMBER	5.9		2.9		5.6	
4TH QTR	6.5		7.4		5.6	
YEAR	7.7		29.5		5.6	
1982						
JANUARY	5.6		2.4		5.0	
FEBRUARY	5.0		1.7		4.1	
MARCH	4.1		3.4		4.4	
1ST QTR	5.6		7.4		4.4	
APRIL	4.4		3.5		3.6	
MAY	3.6		2.8		3.1	
JUNE	3.1		3.2		4.2	
2ND QTR	4.4		9.4		4.2	
JULY	4.2					
AUGUST						
SEPTEMBER						
3RD QTR						
OCTOBER						
NOVEMBER						
DECEMBER						
4TH QTR						
YEAR						

SOURCES: STOCKS: FROZEN FISHERY PRODUCTS, NATIONAL MARINE FISHERIES SERVICE.
LANDINGS: NMFS, FOR MAINE THROUGH VIRGINIA, EXCLUDING NEW HAMPSHIRE, CONNECTICUT, AND DELAWARE.
IMPORTS: DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS. ESTIMATED FROM THE CATEGORY THAT ALSO INCLUDES CUSK, HAKE, AND POLLOCK.

NOTE: DATA ARE PRELIMINARY. FIGURES MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING.

TABLE A19.--EXVESSEL, WHOLESALE, AND RETAIL PRICES OF HADDOCK, MONTHLY, 1978-82

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVERAGE
	CENTS PER POUND												
EXVESSEL PRICE, AT MAJOR NEW ENGLAND PORTS (1)													
1978	37.7	27.2	41.1	31.5	26.9	23.0	31.2	32.9	36.2	34.2	33.5	59.7	32.0
1979	45.0	60.2	42.3	36.1	33.4	31.5	41.2	38.7	43.1	49.7	44.6	62.8	41.9
1980	63.9	49.1	53.7	30.7	24.6	35.5	31.4	23.6	31.3	39.7	47.7	54.1	38.0
1981	50.1	35.9	51.4	51.9	29.0	31.4	36.5	39.8					
1982													
WHOLESALE PRICE, FROZEN FILLETS (CANADIAN, 5-LB. PACKAGE) (2)													
1978	105.0	104.5	103.8	103.0	103.3	103.5	103.5	102.6	99.0	99.0	99.0	99.0	102.1
1979	99.0	-	-	-	-	110.0	110.0	110.2	112.0	118.0	120.8	120.6	112.6
1980	122.5	125.0	125.0	-	134.1	125.0	125.0	125.0	124.4	122.5	122.9	-	125.1
1981	117.8	120.0	116.7	116.5	112.0	106.9	100.0	93.8	95.0	100.8	104.3	109.5	107.8
1982	112.5	112.5	117.5	118.8	122.5	-	125.0						
WHOLESALE PRICE, FRESH FILLETS, AT BOSTON (3)													
1978	150.0	120.0	168.8	155.0	122.5	133.3	157.5	155.0	151.9	141.5	149.4	237.5	153.5
1979	201.0	238.1	183.1	169.0	158.1	144.4	181.5	166.9	176.9	205.0	184.4	211.3	185.0
1980	240.0	192.5	211.0	146.9	148.1	155.5	138.8	141.7	138.0	159.4	173.1	197.5	170.2
1981	214.4	151.9	213.5	253.1	150.0	146.9	134.4	152.5	179.4	206.9	191.0		
1982													
RETAIL PRICE, FROZEN FILLETS (4)													
1978	193.0	196.0	196.0	202.0	203.0	205.0	207.0	210.0	213.0	215.0	216.0	217.0	206.1
1979	213.0	215.0	217.0	219.0	222.0	227.0	226.0	231.0	235.0	243.0	258.0	244.0	229.2
1980	254.0	263.0	259.0	260.0	252.0	258.0	254.0	266.0	261.0	265.0	269.0	271.0	261.0
1981	259.0	263.0	264.0	258.0	257.0	262.0	264.0	265.0	259.0	259.0	260.0	267.0	261.4
1982	259.0	261.0	256.0	261.0	263.0	269.0	268.0						

(1) SOURCE: PRODUCTION AND VALUE OF FISHERIES AT MAJOR NEW ENGLAND PORTS. ANNUAL AVERAGES ARE WEIGHTED.
(2) SOURCE: FISHERY MARKET NEWS REPORT, BOSTON -- RESOURCE STATISTICS DIVISION, NMFS.
(3) SOURCE: BOSTON MARKET NEWS OFFICE -- RESOURCE STATISTICS DIVISION, NMFS.
(4) SOURCE: OPERATION PRICE WATCH -- FISHERIES DEVELOPMENT DIVISION, NMFS.

Table A20.--Supply and use of ocean perch, 1960-81

(Fillet weight)

Year	Supply						Use		
	Beginning stocks	Landings			Imports	Total	Ending stocks	Apparent consumption	
		Atlantic	Pacific	Total				Total	Per capita
	Million pounds								Pounds
1960	14.9	42.2	2.7	45.1	14.4	74.4	13.7	60.7	0.337
1961	13.7	39.6	3.7	43.3	18.4	75.7	13.0	62.7	.343
1962	13.0	37.2	5.2	42.4	19.5	74.9	13.5	61.4	.330
1963	13.5	32.5	7.1	39.6	21.5	74.6	16.3	58.3	.310
1964	16.3	26.8	6.3	33.1	22.9	72.3	15.4	56.9	.297
1965	15.4	25.3	8.5	33.8	25.7	74.9	12.2	62.7	.325
1966	12.2	24.4	6.7	31.1	41.6	84.9	17.9	67.0	.342
1967	17.9	21.4	6.2	27.6	36.3	81.8	18.0	63.8	.319
1968	18.0	18.7	3.8	22.5	50.4	90.9	19.7	71.2	.356
1969	19.7	17.3	4.3	21.6	64.2	105.5	16.4	89.1	.446
1970	16.4	15.5	4.3	19.8	54.2	90.4	21.3	69.1	.339
1971	21.3	16.8	2.8	19.6	56.7	97.6	20.7	76.9	.372
1972	20.7	16.5	2.6	19.1	71.7	111.5	17.8	93.7	.448
1973	17.8	15.0	1.4	16.4	88.4	122.6	27.3	95.3	.451
1974	27.3	11.6	0.6	12.2	59.6	99.1	18.2	80.9	.379
1975	18.3	9.0	2.0	11.0	67.6	96.8	10.0	86.8	.399
1976	10.0	9.6	1.7	11.3	60.1	81.4	14.3	67.1	.305
1977	14.3	10.5	1.7	12.2	45.2	71.7	9.5	62.2	.280
1978	9.5	10.7	1.6	12.3	47.6	69.3	11.5	57.8	.260
1979	11.5	10.2	2.2	12.4	52.8	76.7	19.4	57.3	.255
1980	19.4	7.3	2.0	9.3	38.4	67.0	8.7	58.3	.257
1981 (1)	8.7	5.6	1.6	7.2	54.9	70.8	13.8	57.0	.249

(1) Preliminary.

Note: Annual data differs from monthly because it includes landings from other areas that are not available monthly or not available on a timely basis.

TABLE A21.--SUPPLY AND USE OF FRESH AND FROZEN OCEAN PERCH, MONTHLY, 1980-82
(FILLET WEIGHT)

MONTH	SUPPLY				USE	
	BEGINNING STOCKS	LANDINGS	IMPORTS	TOTAL	ENDING STOCKS	APPARENT CONSUMPTION
	MILLION POUNDS					
1980						
JANUARY	19.4	0.2	2.1	21.7	16.3	5.4
FEBRUARY	16.3	0.4	1.3	17.9	15.8	2.1
MARCH	15.8	0.5	5.3	21.6	13.6	8.1
1ST QTR	19.4	1.0	8.7	29.1	13.6	15.5
APRIL	13.6	0.7	1.7	15.9	12.6	3.3
MAY	12.6	0.6	2.4	15.6	12.0	3.6
JUNE	12.0	1.0	2.2	15.2	8.8	6.4
2ND QTR	13.6	2.3	6.3	22.1	8.8	13.3
JULY	8.8	0.9	2.5	12.3	9.1	3.2
AUGUST	9.1	0.9	3.4	13.3	9.6	3.8
SEPTEMBER	9.6	0.8	4.7	15.1	8.9	6.2
3RD QTR	8.8	2.7	10.6	22.1	8.9	13.2
OCTOBER	8.9	0.5	4.6	14.0	8.9	5.1
NOVEMBER	8.9	0.4	5.0	14.2	8.6	5.6
DECEMBER	8.6	0.2	3.2	12.0	8.7	3.3
4TH QTR	8.9	1.1	12.8	22.8	8.7	14.1
YEAR	19.4	7.1	38.4	64.8	8.7	56.1
1981						
JANUARY	8.7	0.3	3.9	13.0	7.4	5.5
FEBRUARY	7.4	0.4	2.3	10.2	4.8	5.4
MARCH	4.8	0.5	3.9	9.1	3.8	5.3
1ST QTR	8.7	1.2	10.1	20.0	3.8	16.2
APRIL	3.8	0.4	2.5	6.7	2.4	4.2
MAY	2.4	0.2	3.3	5.9	2.4	3.6
JUNE	2.4	0.6	6.4	9.5	4.1	5.3
2ND QTR	3.8	1.2	12.2	17.3	4.1	13.1
JULY	4.1	1.0	7.0	12.1	9.3	2.8
AUGUST	9.3	0.7	6.9	17.0	12.2	4.7
SEPTEMBER	12.2	0.5	5.3	17.9	12.8	5.2
3RD QTR	4.1	2.2	19.2	25.5	12.8	12.7
OCTOBER	12.8		6.1		12.0	
NOVEMBER	12.0		3.1		12.8	
DECEMBER	12.8		4.3		13.8	
4TH QTR	12.8		13.4		13.8	
YEAR	8.7		54.9		13.8	
1982						
JANUARY	13.8		5.1		12.4	
FEBRUARY	12.4		2.7		9.7	
MARCH	9.7		3.4		7.9	
1ST QTR	13.8		11.3		7.9	
APRIL	7.9		3.0		5.9	
MAY	5.9		1.9		4.7	
JUNE	4.7		3.4		4.9	
2ND QTR	7.9		8.4		4.9	
JULY	4.9					
AUGUST						
SEPTEMBER						
3RD QTR						
OCTOBER						
NOVEMBER						
DECEMBER						
4TH QTR						
YEAR						

SOURCES: STOCKS: FROZEN FISHERY PRODUCTS, NATIONAL MARINE FISHERIES SERVICE.
LANDINGS: NMFS, FOR MAINE THROUGH VIRGINIA, EXCLUDING NEW HAMPSHIRE, CONNECTICUT, AND DELAWARE.
IMPORTS: DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS.

NOTE: DATA ARE PRELIMINARY. FIGURES MAY NOT ADD TO TOTAL BECAUSE OF ROUNDING.

TABLE A22.--EXVESSEL, WHOLESALE, AND RETAIL PRICES OF OCEAN PERCH, MONTHLY, 1978-82

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVERAGE
	CENTS PER POUND												
EXVESSEL PRICE, AT MAJOR NEW ENGLAND PORTS (1)													
1978	16.6	17.1	18.1	17.1	16.8	15.7	16.6	17.0	17.0	17.9	18.0	19.4	17.1
1979	20.6	24.4	22.3	21.5	19.3	16.4	20.4	20.7	21.2	21.4	21.1	23.7	20.7
1980	26.0	26.4	29.5	24.8	22.9	22.0	20.8	19.7	20.2	22.6	27.1	28.7	23.0
1981	32.5	32.2	33.1	33.2	31.8	31.6	24.2	23.4					
1982													
WHOLESALE PRICE, FROZEN FILLETS (CANADIAN, 5-LB. PACKAGE) (2)													
1978	94.8	96.3	97.0	98.0	98.3	99.0	99.0	99.4	99.4	99.5	98.2	98.0	98.1
1979	98.0	99.0	103.8	105.0	106.5	107.5	110.0	110.0	110.0	110.0	110.0	110.0	106.7
1980	110.0	110.0	110.0	-	110.0	102.5	94.0	94.0	94.7	95.0	95.0	104.5	101.8
1981	100.0	96.3	96.3	95.0	95.6	100.0	105.0	105.0	100.0	106.0	106.0	107.5	101.1
1982	107.5	110.0	110.0	110.0	108.8	107.5	107.5						
RETAIL PRICE, FROZEN FILLETS (3)													
1978	171.0	174.0	178.0	176.0	180.0	179.0	180.0	184.0	180.0	181.0	180.0	184.0	178.9
1979	184.0	188.0	192.0	194.0	201.0	207.0	213.0	210.0	211.0	216.0	214.0	216.0	203.8
1980	214.0	219.0	220.0	213.0	210.0	213.0	216.0	217.0	219.0	217.0	212.0	216.0	215.5
1981	217.0	218.0	208.0	214.0	219.0	216.0	214.0	213.0	209.0	215.0	225.0	224.0	216.0
1982	224.0	214.0	211.0	207.0	214.0	223.0	214.0						

(1) SOURCE: PRODUCTION AND VALUE OF FISHERIES AT MAJOR NEW ENGLAND PORTS. ANNUAL AVERAGES ARE WEIGHTED.
(2) SOURCE: FISHERY MARKET NEWS REPORT, BOSTON -- RESOURCE STATISTICS DIVISION, NMFS.
(3) SOURCE: OPERATION PRICE WATCH -- FISHERIES DEVELOPMENT DIVISION, NMFS.

Table A23.--Supply and use of Pacific halibut, 1960-81 (1)

(Dressed weight)

Year	Supply				Use		
	Beginning stocks	U.S. Landings	Imports	Total	Ending stocks	Apparent consumption	
						Total	Per capita
	Million pounds						Pounds
1960	18.9	38.3	28.6	85.8	14.4	71.4	0.396
1961	14.4	40.0	28.2	82.6	13.8	68.8	.376
1962	13.8	40.4	34.9	89.1	22.6	66.5	.357
1963	22.6	34.3	29.4	86.3	25.4	60.9	.323
1964	25.4	26.3	30.3	82.0	15.8	66.2	.346
1965	15.8	30.4	30.0	76.2	17.4	58.8	.304
1966	17.4	30.4	27.4	75.2	20.4	54.5	.278
1967	20.7	30.1	24.1	74.9	19.3	55.6	.281
1968	19.8	19.4	29.7	68.4	13.7	54.7	.274
1969	13.7	25.0	31.8	70.5	14.9	55.6	.276
1970	14.9	25.9	27.2	68.0	17.0	51.0	.250
1971	17.0	21.3	28.0	66.3	11.2	55.1	.266
1972	11.2	19.3	34.5	65.0	18.3	46.7	.223
1973	18.3	18.1	24.9	61.3	16.5	44.8	.212
1974	16.5	13.8	10.4	40.7	8.5	32.2	.151
1975	8.5	16.2	14.3	39.0	8.3	30.7	.142
1976	8.3	15.5	11.6	35.4	9.5	25.9	.119
1977	9.5	13.3	9.0	31.8	7.5	24.3	.111
1978	7.5	13.3	9.0	29.8	5.9	23.8	.108
1979	5.9	16.0	5.3	27.2	11.3	16.0	.071
1980(2)	11.3	14.4	6.7	32.4	8.6	23.8	.105
1981(2)	8.6	20.2	7.4	36.1	9.9	26.2	.114

(1) Data were adjusted downward to correct for Greenland turbot that was classified as halibut.
(2) Preliminary.

Table A24.--Supply and use of canned salmon, 1965-81

Year	Supply				Use			
	Beginning stocks	Production	Imports	Total	Ending stocks	Exports	Apparent consumption	
							Total	Per capita
	Thousand standard cases							Pounds
1965	3,349	3,634	2	6,985	2,761	519	3,705	0.919
1966	2,761	4,358	12	7,131	3,456	427	3,248	.797
1967	3,456	2,072	3	5,531	2,087	428	3,016	.733
1968	2,087	3,448	103	5,638	2,746	119	2,773	.668
1969	2,746	2,551	46	5,343	2,163	324	2,856	.661
1970	2,163	3,822	51	6,036	2,650	350	3,036	.714
1971	2,650	3,509	32	6,191	2,699	380	3,112	.722
1972	2,699	1,935	243	4,877	1,508	445	2,924	.671
1973	1,508	1,495	163	3,166	941	353	1,872	.425
1974	941	1,829	178	2,948	1,668	173	1,107	.249
1975	1,668	1,627	68	3,363	1,354	469	1,540	.343
1976	1,354	2,611	53	4,018	2,042	408	1,568	.346
1977	2,042	3,142	12	5,196	2,586	443	2,167	.473
1978	2,586	3,422	7	6,015	2,707	677	2,631	.569
1979	2,707	3,126	9	5,842	2,348	1,061	2,433	.520
1980	1,932	4,202	3	6,137	2,102	1,542	2,493	.527
1981 (1)	2,102	4,535	1	6,638	3,088	1,323	2,227	.466

(1) Preliminary.
Note: Distributors' stocks are no longer available after 1980.
Source: National Food Processors Association; U.S. Department of Commerce, Bureau of the Census; and Fishery Statistics of the United States.

TABLE A25.--WHOLESALE PRICES OF CANNED SALMON, MONTHLY, 1978-82

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVERAGE
	DOLLARS PER CASE												
RED (SOCKEYE), 48 TALLS (1-LB. CANS)													
1978	92.00	92.00	92.00	92.00	92.00	92.00	92.00	92.00	92.50	94.00	94.00	94.00	92.54
1979	94.00	94.00	94.00	95.50	96.00	96.00	96.00	101.50	106.33	106.00	106.25	107.67	99.44
1980	108.00	108.00	108.00	108.00	108.00	108.00	108.00	108.00	109.00	108.40	109.00	109.00	108.28
1981	110.60	111.00	111.00	111.00	111.00	111.00	111.00	111.00	114.00	112.20	111.13	111.00	111.33
1982	112.56	112.75	-	-	107.00	107.00	107.00						
RED (SOCKEYE), 48 1/2-LB. CANS													
1978	59.00	59.00	59.00	59.00	59.00	59.00	59.00	59.00	59.38	60.50	60.50	60.50	59.41
1979	60.50	60.50	60.50	60.75	60.50	60.50	60.50	64.50	68.00	68.00	69.88	69.50	63.64
1980	69.50	69.50	69.50	69.50	69.50	71.50	71.50	71.50	71.63	72.80	73.00	73.67	71.09
1981	74.00	74.00	74.00	74.00	74.00	74.00	74.00	74.00	75.50	74.40	75.00	75.00	74.32
1982	73.62	74.00	-	-	67.00	67.00	67.00						
PINK, 48 TALLS (1-LB. CANS)													
1978	66.00	66.00	66.00	66.00	66.00	66.00	66.00	66.00	65.00	62.00	63.25	64.00	65.19
1979	64.00	64.00	64.00	66.25	67.75	70.00	70.00	72.00	74.00	74.00	75.25	78.00	69.94
1980	76.50	76.00	76.00	77.50	78.00	78.00	78.00	78.00	80.25	80.00	80.25	80.75	78.27
1981	85.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	84.38	82.10	81.50	81.50	84.71
1982	83.00	83.00	-	-	69.00	69.00	69.00						
CHUM, 48 TALLS (1-LB. CANS)													
1978	57.50	57.50	57.50	57.00	57.00	57.00	57.00	57.00	57.25	58.00	58.00	58.00	57.40
1979	58.00	58.00	58.00	59.50	60.00	60.00	60.00	62.50	66.33	67.00	69.63	69.67	62.39
1980	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	74.25	74.25	74.25	74.08	71.40
1981	74.00	74.00	74.00	74.00	74.00	74.00	74.00	74.00	73.25	72.90	72.50	72.50	73.60
1982	73.50	73.50	-	-	54.00	54.00	54.00						

SOURCE: FISHERY MARKET NEWS REPORT, SEATTLE -- RESOURCE STATISTICS DIVISION, NMFS; AVERAGE OF THE WEEKLY PRICES REPORTED BY SEATTLE BROKERS AND CANNERS FOR TOP QUALITY STOCKS ONLY.

Table A26.--U.S. supply of canned sardines, 1967-81

(Canned weight)

Year	U.S. pack Maine sardines	Imports	Total supply	Exports	Total for U.S. consumption
		Thousand pounds			
1967	29,260	52,439	81,699	1,373	80,326
1968	40,489	58,867	99,356	3,032	96,324
1969	24,402	45,367	69,769	2,095	67,674
1970	18,872	46,908	65,780	1,456	64,324
1971	22,249	50,019	72,268	890	71,378
1972	36,540	70,215	106,755	3,030	103,725
1973	23,284	67,419	90,703	1,740	88,963
1974	25,131	69,137	94,268	1,691	92,577
1975	26,008	31,106	57,114	2,161	54,953
1976	24,971	53,873	78,844	1,829	77,015
1977	23,496	50,036	73,532	1,776	71,756
1978	26,376	48,717	75,093	1,555	73,538
1979	30,369	49,756	80,125	1,591	78,534
1980	19,809	51,178	70,987	1,839	69,148
1981	38,164	55,273	93,437	1,731	91,706

TABLE A27.--EXVESSEL, WHOLESALE, AND RETAIL PRICES OF SARDINES, MONTHLY, 1978-82

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVERAGE
EXVESSEL PRICE, MAINE SEA HERRING (1)													
	CENTS PER POUND												
1978	4.9	5.0	5.0	5.3	5.7	5.8	5.8	5.8	5.5	5.5	5.1	6.0	5.7
1979	6.5	6.4	6.3	20.0	5.3	5.7	5.7	4.9	4.9	4.9	4.9	4.9	5.1
1980	19.0	-	-	15.0	5.0	5.9	5.3	5.6	5.5	5.6	5.6	-	5.5
1981	-	6.0	-	15.0	6.2	5.6	5.5	5.6	5.6	5.7	5.7	5.7	5.6
1982													
WHOLESALE PRICE, CANNED MAINE SARDINES, AT NEW YORK CITY (2)													
	DOLLARS PER CASE												
1978	27.10	27.10	28.10	28.10	30.10	30.10	30.10	32.10	32.10	32.10	32.10	32.10	30.10
1979	32.10	32.10	32.10	32.10	32.10	32.10	32.10	32.10	32.10	32.10	32.10	32.10	32.10
1980	32.10	32.10	32.10	33.60	34.10	35.24	36.00	36.00	34.00	34.00	35.00	36.00	34.19
1981	36.00	36.00	36.00	36.00	37.00	38.00	38.00	38.00	38.00	42.00	42.00	42.00	38.17
1982	42.00	42.00	42.00	42.00	42.00	42.00							
RETAIL PRICE, CANNED MAINE SARDINES (3)													
	CENTS PER CAN												
1978	38.9	39.4	40.1	41.7	41.3	43.4	44.8	45.7	46.2	48.0	48.3	49.2	43.9
1979	50.6	49.2	49.0	49.0	49.7	48.8	48.8	49.5	49.2	48.8	48.8	49.2	49.2
1980	49.5	48.5	49.7	49.9	50.4	50.2	52.0	52.0	51.8	52.7	52.0	54.6	51.1
1981	56.7	55.3	57.0	55.3	56.0	55.1	55.3	54.6	55.1	56.0	56.3	54.1	55.6
1982	54.8	54.6	54.6	54.6	55.3	54.4	53.9						
RETAIL PRICE, CANNED NORWAY SARDINES (4)													
	CENTS PER CAN												
1978	65.9	65.4	66.8	68.7	69.1	69.6	69.4	69.4	68.9	68.7	69.4	69.8	68.4
1979	73.1	70.5	71.7	71.5	72.7	72.4	72.4	74.5	73.4	72.0	74.3	74.1	72.7
1980	74.1	72.2	74.3	77.6	80.2	83.2	85.8	85.5	88.1	88.6	89.8	92.3	82.6
1981	94.5	94.7	94.2	93.3	95.2	96.3	96.6	95.6	93.5	95.2	96.1	96.3	95.1
1982	96.6	96.6	96.6	97.3	98.0	98.6	97.5						

(1) SOURCE: MAINE LANDINGS -- RESOURCE STATISTICS DIVISION, NMFS; BASED ON ROUND WEIGHT.
(2) SOURCE: NEW YORK MARKET NEWS OFFICE -- RESOURCE STATISTICS DIVISION, NMFS.
(3) SOURCE: OPERATION PRICE WATCH -- FISHERIES DEVELOPMENT DIVISION, NMFS.
(4) SOURCE: OPERATION PRICE WATCH -- FISHERIES DEVELOPMENT DIVISION, NMFS.

TABLE A28.--RECEIPTS OF DOMESTIC-CAUGHT TUNA AND BONITO BY U.S. CANNERIES, INCLUDING AMERICAN SAMOA AND PUERTO RICO, 1980-82

MONTH	RECEIPTS OF TUNA									RECEIPTS OF BONITO (2)
	CONTINENTAL U.S.					AMERICAN SAMOA, PUERTO RICO, AND HAWAII			TUNA, GRAND TOTAL	
	ALBACORE	BLUEFIN	SKIPJACK	YELLOWFIN	TOTAL	SKIPJACK	YELLOWFIN (1)	TOTAL		
	SHORT TONS									
1980										
JANUARY	4	0	1,300	1,447	2,751	834	1,229	2,063	4,814	664
FEBRUARY	0	0	2,260	3,324	5,584	3,359	1,068	4,427	10,011	1,174
MARCH	11	0	4,176	8,264	12,451	3,641	3,312	6,953	19,404	1,326
1ST QTR	15	0	7,736	13,035	20,786	7,834	5,609	13,443	34,229	3,164
APRIL	0	0	15,136	19,216	34,352	2,696	2,067	4,763	39,115	806
MAY	0	0	12,058	7,113	19,171	3,577	3,423	7,000	26,171	99
JUNE	1	206	7,296	5,911	13,414	97	91	188	13,602	123
2ND QTR	1	206	34,490	32,240	66,937	6,370	5,581	11,951	78,888	1,028
JULY	298	562	11,576	7,928	20,364	390	304	694	21,058	918
AUGUST	1,505	647	8,758	11,126	22,036	2,336	1,018	3,354	25,390	107
SEPTEMBER	3,018	467	9,509	11,369	24,363	4,051	2,713	6,764	31,127	610
3RD QTR	4,821	1,676	29,843	30,423	66,763	6,777	4,035	10,812	77,575	1,635
OCTOBER	2,288	458	6,507	7,121	16,374	1,390	1,427	2,817	19,191	265
NOVEMBER	952	15	2,901	3,133	7,001	1,555	772	2,327	9,328	261
DECEMBER	64	0	5,806	10,304	16,174	3,961	3,593	7,554	23,728	134
4TH QTR	3,304	473	15,214	20,558	39,549	6,906	5,792	12,698	52,247	660
YEAR	8,141	2,355	87,283	96,256	194,035	27,887	21,017	48,904	242,939	6,487
1981 (3)										
JANUARY	2	0	677	2,779	3,458	502	2,496	2,998	6,456	98
FEBRUARY	21	0	932	2,527	3,480	1,111	3,729	4,840	8,320	0
MARCH	0	0	3,457	1,564	5,021	2,301	1,707	4,008	9,029	58
1ST QTR	23	0	5,066	6,870	11,959	3,914	7,932	11,846	23,805	156
APRIL	0	0	11,840	9,245	21,085	4,924	2,450	7,374	28,459	138
MAY	0	0	15,411	10,219	25,630	3,441	1,745	5,186	30,816	46
JUNE	6	1	7,936	7,534	15,477	3,764	2,632	6,396	21,873	261
2ND QTR	6	1	35,187	26,998	62,192	12,129	6,827	18,956	81,148	445
JULY	1,493	234	5,418	9,348	16,493	3,294	3,431	6,725	23,218	2,823
AUGUST	5,266	427	2,266	10,092	18,051	1,529	2,784	4,313	22,364	1,679
SEPTEMBER	4,286	130	2,457	8,382	15,255	2,947	3,583	6,530	21,785	851
3RD QTR	11,045	791	10,141	27,822	49,799	7,770	9,798	17,568	67,367	5,353
OCTOBER	2,441	17	3,014	7,196	12,668	3,367	6,156	9,523	22,191	40
NOVEMBER	515	0	1,964	5,241	7,720	3,517	4,323	7,840	15,560	409
DECEMBER	78	0	7,932	10,586	18,596	9,072	5,296	14,368	32,964	707
4TH QTR	3,034	17	12,910	23,023	38,984	15,956	15,775	31,731	70,715	1,156
YEAR	14,108	809	63,304	84,713	162,934	39,769	40,332	80,101	243,035	7,110
1982 (3)										
JANUARY	8	0	3,327	11,766	15,101	717	728	1,445	16,546	223
FEBRUARY	0	0	1,650	3,407	5,057	3,617	5,601	9,218	14,275	0
MARCH	0	0	0	0	0	2,628	960	3,588	3,588	0
1ST QTR	8	0	4,977	15,173	20,158	6,962	7,289	14,251	34,409	223
APRIL	34	0	8,459	14,960	23,453	2,646	3,791	6,437	29,890	5
MAY	0	0	5,982	4,807	10,789	4,769	3,616	8,385	19,174	28
JUNE	0	0	6,239	6,128	12,367					0
2ND QTR	34	0	20,680	25,895	46,609					33
JULY										
AUGUST										
SEPTEMBER										
3RD QTR										
OCTOBER										
NOVEMBER										
DECEMBER										
4TH QTR										
YEAR										

(1) INCLUDES SMALL AMOUNTS OF ALBACORE AND BLUEFIN.
(2) RECEIPTS AT CONTINENTAL U.S. CANNERIES.
(3) PRELIMINARY.

SOURCE: FISHERY MARKET NEWS REPORT, TERMINAL ISLAND, CALIFORNIA -- RESOURCE STATISTICS DIVISION, NMFS.

TABLE A29.--TUNA AND BONITO PACK AT U.S. CANNERIES, INCLUDING AMERICAN SAMOA AND PUERTO RICO, 1980-82

MONTH	TUNA PACK									BONITO PACK
	CONTINENTAL U.S.			AMERICAN SAMOA, PUERTO RICO, AND HAWAII			TUNA, TOTAL			
	WHITE	LIGHT	TOTAL	WHITE	LIGHT	TOTAL	WHITE	LIGHT	TOTAL	
	THOUSAND STANDARD CASES									
1980										
JANUARY	28	421	449	226	864	1090	254	1285	1539	23
FEBRUARY	11	387	398	202	672	874	213	1059	1272	42
MARCH	122	865	987	416	774	1190	538	1639	2177	47
1ST QTR	161	1673	1834	844	2310	3154	1005	3983	4988	112
APRIL	67	1979	2046	266	592	858	333	2571	2904	29
MAY	33	1412	1445	246	985	1231	279	2397	2676	3
JUNE	59	1121	1180	332	741	1073	391	1862	2253	5
2ND QTR	159	4512	4671	844	2318	3162	1003	6830	7833	37
JULY	87	1490	1577	140	929	1069	227	2419	2646	33
AUGUST	106	1520	1626	498	1189	1687	604	2709	3313	4
SEPTEMBER	211	1333	1544	369	1436	1805	580	2769	3349	22
3RD QTR	404	4343	4747	1007	3554	4561	1411	7897	9308	59
OCTOBER	150	1208	1358	447	1088	1535	597	2296	2893	9
NOVEMBER	88	665	753	110	1118	1228	198	1783	1981	10
DECEMBER	35	1102	1137	1030	1578	2608	1065	2680	3745	4
4TH QTR	273	2975	3248	1587	3784	5371	1860	6759	8619	23
YEAR	997	13503	14500	4282	11966	16248	5279	25469	30748	231
1981										
JANUARY	48	490	538	147	1164	1311	195	1654	1849	3
FEBRUARY	20	426	446	217	850	1067	237	1276	1513	0
MARCH	112	521	633	375	1017	1392	487	1538	2025	2
1ST QTR	180	1437	1617	739	3031	3770	919	4468	5387	5
APRIL	85	1534	1619	526	1362	1888	611	2896	3507	5
MAY	194	1891	2085	222	709	931	416	2600	3016	2
JUNE	124	1223	1347	150	1286	1436	274	2509	2783	9
2ND QTR	403	4648	5051	898	3357	4255	1301	8005	9306	16
JULY	88	1020	1108	472	1335	1807	560	2355	2915	99
AUGUST	367	732	1099	264	1172	1436	631	1904	2535	59
SEPTEMBER	243	658	901	707	1167	1874	950	1825	2775	30
3RD QTR	698	2410	3108	1443	3674	5117	2141	6084	8225	188
OCTOBER	144	593	737	184	1271	1455	328	1864	2192	1
NOVEMBER	49	444	493	386	1008	1394	435	1452	1887	14
DECEMBER	18	865	883	229	1088	1317	247	1953	2200	20
4TH QTR	211	1902	2113	799	3367	4166	1010	5269	6279	35
YEAR	1492	10397	11889	3879	13429	17308	5371	23826	29197	244
1982										
JANUARY	20	862	882	111	745	856	131	1607	1738	8
FEBRUARY	15	285	300	197	885	1082	212	1170	1382	0
MARCH	0	0	0	647	685	1332	647	685	1332	0
1ST QTR	35	1147	1182	955	2315	3270	990	3462	4452	8
APRIL	319	1584	1903	476	764	1240	795	2348	3143	0
MAY	107	825	932	413	995	1408	520	1820	2340	1
JUNE	21	738	759							0
2ND QTR	447	3147	3594							1
JULY										
AUGUST										
SEPTEMBER										
3RD QTR										
OCTOBER										
NOVEMBER										
DECEMBER										
4TH QTR										
YEAR										

(1) PRELIMINARY. REVISED ANNUAL DATA, PUBLISHED IN FISHERIES OF THE UNITED STATES, 1981, WERE USED IN THE TEXT OF THIS REPORT.

SOURCE: FISHERY MARKET NEWS REPORT, TERMINAL ISLAND, CALIFORNIA -- RESOURCE STATISTICS DIVISION, NMFS.

TABLE A30.--EXVESSEL PRICES OF TUNA, MONTHLY, 1978-82 (1)

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVERAGE
	DOLLARS PER TON												
ALBACORE													
1978	1165	1165	1165	1165	-	1220	1220	1220	1220	1220	1220	1220	1200
1979	1220	1220	1220	1220	1220	1220	-	1320	1320	1390	1390	1390	1285
1980	1390	-	1390	-	-	-	1610	1610	1610	1620	1635	1635	1563
1981	1635	1635	-	-	-	1800	1800	1800	1800	1800	1800	1800	1763
1982	1800	-	-	-	-	-	1425						
BLUEFIN													
1978	810	-	-	-	-	820	820	820	820	820	820	820	819
1979	820	-	-	-	852	849	866	894	930	930	930	930	889
1980	930	-	-	-	-	1180	1180	1180	1180	1180	1180	1180	1149
1981	1180	-	-	-	-	1180	1180	1180	1180	1180	1180	1180	1180
1982	-	-	-	-	-	-	-						
SKIPJACK (2)													
1978	783	790	790	790	790	790	790	790	790	790	790	773	788
1979	765	746	745	750	761	775	785	814	827	836	850	850	792
1980	943	1037	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1082
1981	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
1982	1100	1100	-	1070	1070	1014	890						
YELLOWFIN (2)													
1978	833	840	840	840	840	840	840	840	840	840	840	840	839
1979	840	840	845	851	861	875	885	914	927	936	950	950	890
1980	1075	1137	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1184
1981	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
1982	1200	1200	-	1170	1170	1136	1050						

(1) MIDPOINTS OF PRICE RANGES RECEIVED FROM CALIFORNIA CANNERS.
(2) PREMIUM GRADE.

SOURCE: FISHERY MARKET NEWS REPORT, TERMINAL ISLAND, CALIFORNIA -- RESOURCE STATISTICS DIVISION, NMFS.

TABLE A31.--CANNED TUNA WHOLESALE AND RETAIL PRICES, MONTHLY, 1978-82

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVERAGE
WHOLESALE PRICE -- ADVERTISED LABELS (1)													
	DOLLARS PER CASE												
WHITE SOLID (NO. 1/2 -- 7 OZ. 48'S), IN WATER													
1978	42.00	42.00	42.00	42.00	42.25	42.50	42.88	46.00	46.00	46.00	46.00	46.00	43.80
1979	46.00	46.00	46.00	46.50	47.25	48.00	48.00	48.20	50.00	50.00	50.00	50.00	48.00
1980	50.00	50.00	51.00	52.25	53.00	53.00	54.39	55.57	56.70	57.93	58.58	59.50	54.33
1981	60.50	60.50	60.50	60.75	61.50	61.50	61.60	62.00	62.25	62.50	62.50	62.50	61.55
1982	62.70	63.50			66.05	66.04	66.04						
LIGHT CHUNK (NO. 1/2 -- 6-1/2 OZ. 48'S), IN OIL													
1978	34.00	34.00	34.00	34.00	34.25	34.50	34.50	35.00	35.10	36.00	36.00	36.00	34.78
1979	36.00	36.00	36.00	36.25	36.63	37.00	38.00	38.20	40.00	40.00	40.00	41.00	37.92
1980	41.33	42.40	43.00	43.38	44.90	45.50	45.75	46.50	47.50	47.80	49.00	49.50	45.55
1981	50.00	50.00	50.00	50.00	50.00	50.00	50.20	51.00	51.00	51.00	51.00	51.00	50.43
1982	51.00	51.00	48.28	48.17	47.84	47.84	47.84						
WHOLESALE PRICE -- PRIVATE LABELS (1)													
	DOLLARS PER CASE												
WHITE SOLID (NO. 1/2 -- 7 OZ. 48'S), IN OIL													
1978	39.00	38.50	38.50	38.50	38.50	38.50	38.50	40.25	40.50				38.97
1979	40.33	39.50	39.50	40.31	41.25	41.25	41.25	41.45	42.25	42.50	43.45	43.75	41.40
1980	44.00	44.80	45.63	47.50	47.50	47.50	47.50	47.50	49.00	50.40	51.50	51.88	47.89
1981	52.25	52.25	52.50	53.63	53.75	53.75	53.80	54.00	54.00	53.90	53.75	53.75	53.44
1982	54.75	54.75	54.75	55.00	55.00	55.00	54.75						
LIGHT CHUNK (NO. 1/2 -- 6-1/2 OZ. 48'S), IN OIL													
1978	28.50	28.50	28.50	28.50	28.50	28.50	28.50	28.00	28.00				28.39
1979	27.83	27.75	28.00	28.25	28.50	28.70	30.00	30.20	31.00	31.13	31.90	33.00	29.69
1980	34.00	35.00	35.63	38.13	38.50	38.50	38.50	38.50	38.88	39.30	39.50	39.50	37.83
1981	39.50	39.50	39.50	39.50	39.50	39.50	39.50	39.50	39.50	39.50	39.50	39.00	39.46
1982	38.00	38.00	38.00	38.00	36.50	36.50	34.00						
RETAIL PRICE (2)													
	CENTS PER CAN												
WHITE SOLID (7-OZ. CAN)													
1978	105.9	106.3	105.4	106.8	107.2	111.1	109.8	111.6	113.3	116.4	117.7	117.3	110.7
1979	117.7	117.3	117.7	117.7	118.6	122.1	123.4	122.1	122.9	123.4	127.3	127.3	121.4
1980	126.0	127.3	126.0	128.6	132.1	133.0	135.2	138.3	140.9	142.2	144.4	144.4	134.9
1981	150.5	151.8	150.5	151.4	147.9	147.9	149.2	151.8	151.4	153.1	152.3	150.9	150.7
1982	152.3	153.6	154.9	154.4	157.1	157.1	154.9						
LIGHT CHUNK (6-1/2 OZ. CAN)													
1978	76.0	75.6	73.9	75.2	75.6	76.8	78.0	77.2	76.8	78.0	80.0	76.8	76.6
1979	80.0	81.7	81.3	79.6	80.8	82.1	78.0	82.5	84.9	82.1	82.9	84.1	81.7
1980	85.7	84.5	89.0	86.9	88.6	91.8	95.1	97.1	100.3	99.5	96.3	101.2	93.0
1981	106.0	104.0	101.6	101.2	95.1	97.1	91.8	97.5	94.3	95.9	98.3	97.9	98.4
1982	95.9	95.5	96.3	96.3	96.3	95.5	98.3						

(1) SOURCE: FISHERY MARKET NEWS REPORT, TERMINAL ISLAND, CAL. -- RESOURCE STATISTICS DIVISION, NMFS; REPORTED BY CALIFORNIA BROKERS AND CANNERY REPRESENTATIVES, F.O.B. CANNER'S TERMINAL. QUOTES DO NOT INCLUDE TRADE OR PROMOTIONAL ALLOWANCES.
(2) SOURCE: OPERATION PRICE WATCH -- FISHERIES DEVELOPMENT DIVISION, NMFS.
(3) NO QUOTES.

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